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(2)

FINAL PHASE II
DATA ADDENDUM
SITE 36-3: INSECTICIDE PIT

September 1988
Contract Number DAAK11-84-D-0016
(Version 3.1)

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PREPARED BY

ENVIRONMENTAL SCIENCE AND ENGINEERING, INC.
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PREPARED FOR

U.S. ARMY PROGRAM MANAGER'S OFFICE FOR ROCKY MOUNTAIN ARSENAL

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SITE 36-3: INSECTICIDE PIT

1.0 PHASE II PROGRAM

As a result of the Phase I contamination assessment at Rocky Mountain Arsenal (RMA), a Phase II program was initiated at Site 36-3 in the summer of 1987. The Phase II program was generally conducted as presented in the Phase I Contamination Assessment Report (CAR) (ESE, 1987a, RIC#87203R01), except that several samples were collected from intervals which were not proposed in the Phase I CAR. Table 36-3-II-1 summarizes variances from the proposed Phase II program as well as field observations noted during Phase II drilling.

The Phase II investigation of Site 36-3 consisted of 28 borings yielding 76 samples. Twelve borings were drilled along the perimeter of the Phase II site boundaries. Eight borings were drilled at specific locations within the site boundaries to verify the absence of disposal trenches. Five borings were drilled at inner-trench locations, and three deep borings were drilled along an east-west line in the approximate center of Site 36-3.

Soil samples were collected using the continuous soil sampling method detailed in the Task 1 Technical Plan (ESE, 1985, RIC#85127R07). Samples were obtained at predetermined intervals unless field conditions (e.g., depth to water table, staining, etc.) necessitated adjustment of the interval selections. Variances from the Phase II program and collection of three additional samples were necessary because of the complexity of Site 36-3.

None of the Phase II borings drilled at Site 36-3 encountered bedrock, but 19 borings intercepted the water table. These borings are summarized below:

Boring Number	Depth Drilled_(ft)	Depth to Water Table_(ft)
3437	5	5
3438	5	4
3439	5	4
3442	7	6
3443	8	8

Table 36-3-II-1. Variances from Proposed Phase II Program and Phase II Field Observations (Page 1 of 4)

Boring Number	Depth Drilled (ft)	Depth to Water Table (ft)	Comments
3442	7	6	The water table (W.T.) was estimated to be at 10 ft in the proposed Phase II program; the W.T. was encountered at 6 ft. The 0- to 1-, 4- to 5-, and 5- to 6-ft intervals were submitted for analysis, and the 5- to 6-ft interval was analyzed for volatiles and semivolatile organic compounds by GC/MS. This boring is located in the revised northwestern portion of Site 36-3.
3443	8	8	This boring is located in the northwestern revised site boundary. The W.T. was encountered at 8 ft, and the 7- to 8-ft interval was consequently submitted for analysis instead of the 9- to 10-ft interval.
3444	10	10	This boring was relocated after a hard object (possibly concrete) was encountered at 3 ft, and the original boring was abandoned. The new location was 2 ft east and 2 ft north. An additional sample was submitted for analysis (3-to 4-ft interval) because of soil discoloration noted by the field geologist. The water table was encountered at 10 ft, and a PID reading of 38 was recorded off the 9- to 10-ft sample. Depth to the base of the disposal trench material was 4 ft.
3445	12	12	Five sampled intervals were submitted for analysis: the three intervals as planned in the Phase II program (0- to 1-, 4- 5-, and 9- to 10-ft) and two additional intervals (5- to 6- and 6- to 7-ft). The 5- to 6-ft interval contained a black fibrous material, and the 6- to 7-ft interval was saturated with a

Table 36-3-III-1. Variances from Proposed Phase II Program and Phase II Field Observations (Page 2 of 4)

Boring Number	Depth Drilled (ft)	Depth to Water Table (ft)	Comments
			black oily fluid. The depth to the base of the disposal trench was 8 ft.
3446	9	8	The first attempt at completing this boring resulted in auger refusal at 3.8 ft. Quartzite chips were noted in the end of the sampling shoe. The boring was relocated 2 ft north and 7 ft east. A shallow subsidence feature was noted approximately 6 ft north of this location. This boring encountered a void space from 4 to 5 ft. A PID reading of 90 was registered in the auger annulus. A bluish-green clayey material was noted in the 5- to 6-ft interval which was submitted for analysis. The 7- to 8-ft interval was also submitted for analysis when the water table was encountered at 8 ft. Depth to the base of the disposal trench was estimated at 8.0 ft.
3448	7	7	The water table was encountered at 7 ft. The 6- to 7-ft interval was submitted for analysis instead of the proposed 9- to 10-ft.
3449	11	9	The water table was encountered at 9 ft, although the boring was drilled to 11 ft. The 0-to 1-, 4- to 5-, and 8- to 9- ft intervals were submitted for analysis; the 9- to 10-ft interval had been proposed in the Phase I CAR.
3450	9	7	The first attempt at drilling resulted in auger refusal at 3.5 ft (possibly concrete). This boring was relocated 8 ft east and 8 ft south and was completed to 9 ft. An asphalt-type material was encountered while drilling the 1- to 4-ft interval. This boring was drilled through the asphalt/concrete to 5.5 ft.

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Table 36-3-II-1. Variances from Proposed Phase II Program and Phase II Field Observations (Page 3 of 4)

Boring Number	Depth Drilled (ft)	Depth to Water Table (ft)	Comments
3451	10	4	Soil became saturated at 7 ft (water table). The 0- to 1-, 6- to 7-, and the 7- to 8-ft intervals were sampled.
3453	9	7	Site geologist noted saturated conditions at 3.5 ft (W.T.). The boring was continued when a black oily material was removed from the sampler shoe at the 4- to 5-ft interval. At 7 ft, plastic sheeting was noted in the drill cuttings, and silty sand mixed with a black oily sludge and plastic was noted in the 8- to 9-ft interval. The 0- to 1-, 3- to 4-, and the 8- to 9-ft intervals were submitted for analysis.
3456	17	9	This boring was scheduled to have the 0- to 1-, 4- to 5-, and the 9- to 10-ft intervals analyzed. Poor recovery resulted when voids were encountered from 4- to 5- and 6- to 9-ft (possibly empty 55-gallon drums). The water table was estimated to be at 7 ft based on the waterline on the sample barrel. The 0- to 1- and 5- to 6-ft intervals were submitted for analysis. The depth to the base of the disposal trench was 9 ft.
			This boring was drilled to 17 ft instead of 15 ft as proposed in the Phase I CAR, although the water table was encountered at 9 ft. Poor recovery from 9 to 15 ft due to flowing sand conditions. The 15- to 17-ft interval was recovered. MKE subsampled the 15- to 16-ft interval, and the 16- to 17-ft interval was submitted for analysis along with the 0-to 1-, 4- to 5-, and 8- to 9-ft intervals. Debris material was observed in this boring.

Table 36-1-1. Variances from Proposed Phase II Program and Phase II Field Observations (Page 4 of 4)

Boring Number	Depth Drilled (ft)	Depth to Water Table (ft)	Comments
3457	14	9	While drilling the 1- to 4-ft interval, the augers dropped 2 ft through a subsurface void, and soil in the end of the sampling shoe contained an orange oxide material. Another void was encountered from 7 to 9 ft. The PIP reading in the auger annulus registered 76. An oily sheen was noted on the outer surface of the soil sample from the 13- to 14-ft interval. W.T. at 9 ft after completion of the boring. The 0- to 1-, 8- to 9-, 9- to 10-, and 13- to 14-ft intervals were submitted for analysis. The base of the disposal trench was estimated at 9 ft.
3458	14	8	This boring was drilled to 14 ft. although the water table was encountered at 8 ft. Poor recovery on the 4- to 5-ft interval resulted in the 5- to 6-ft interval being submitted for laboratory analysis. A black discoloration in the 7- to 8-ft interval was noted and subsequently submitted for analysis. Also submitted were the 0- to 1- and 13- to 14-ft intervals. Trench debris material was not observed from soil samples obtained from this boring.

Source: ESE, 1988.

3444	10	10
3445	12	12
3446	9	8
3447	10	9
3448	7	7
3449	11	9
3450	9	7
3451	10	4
3452	5	5
3453	9	7
3454	10	10
3456	17	9
3457	14	9
3458	14	8

Prior to any Phase II drilling, the Program Manager's Office (PMO), Environmental Science and Engineering (ESE), Morrison-Knudsen Engineers (MKE), and Harding Lawson Associates (HLA) formulated procedures for MKE to obtain subsamples from selected soil cores during Phase II drilling. Results from the MKE subsamples were not available prior to the distribution of this report, but will be incorporated in the Central Study Area. MKE requested subsamples of the 1- to 4-foot (ft) intervals of all 28 Phase II borings at Site 36-3, and further requested laboratory splits and subsamples from borings as summarized below:

Boring Number	MKE Lab Split _____(ft)____	MKE Subsample _____(ft)____
3440	0-1	-
3443	0-1	6-7
3456	-	7-8, 15-16
3457	-	4-5, 12-13
3458	-	6-7, 12-13

The Phase II analytical program at Site 36-3 was conducted as set forth in the Phase I CAR, except that three additional samples (Boring 3444, 3- to 4-ft and Boring 3445, 5- to 6- and 6- to 7-ft intervals) were submitted for analyses. The 0- to 1-, 4- to 5-, and the 7- to 8-ft intervals of Boring 3443 were not analyzed for fluoroacetic acid (FC2A), and Boring 3458 (13 to 14 ft) was not analyzed for diisomethylphosphonate (DIMP), because holding times were exceeded. The analytes, analytical methods, and number of samples analyzed for the Phase II program at Site 36-3 are summarized below:

<u>Analytes</u>	<u>Analytical Method</u>	<u>Number of Samples</u>
Mercury (Hg)	Atomic absorption (AA)*	28 0- to 1-ft interval
Organochlorine pesticides (OCP)	Gas chromatography electron capture (GC/EC)	76 all samples
Organophosphorus compounds (OPC)	Gas chromatography flame photometric (GC/FPD)	75 all samples except 3458 (10 to 14 ft)
Organosulphur compounds (OSC)	GC/FPD	76 all samples
Dibromochloro-propane (DBCP)	Gas chromatography (GC)*	76 all samples
Volatile hydrocarbon compounds (HYDCBN)	Gas chromatograph flame ionization detector (GC/FID)	76 all samples
Volatile halocarbon compounds (VHO)	Gas chromatography conductivity detector	48 all samples except the 0- to 1-ft intervals
Volatile aromatic compounds (VAO)	Gas chromatography photo-ionization detector (GC/PID)	48 all samples except the 0- to 1-ft intervals
Semivolatile (SVO)	Gas chromatography/mass spectrometry (GC/MS)*	16 10 percent organics confirmation
Volatile organic Compounds (VO)	GC/MS*	12 10 percent confirmation
Army Agent Degradation Products (ADP):		
Thiodiglycol (TDGCL)	High-performance liquid chromatography (HPLC)	10 Borings 3443, 3454, and 3457
Isopropylmethyl-phosphonic acid (IMPA)**	Ion Chromatography (IONCHROM)	10 Borings 3443, 3454, and 3457

* Method used in Phase I and Phase II programs.

** Only seven samples were analyzed for FC2A, as holding times were exceeded.

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Phase II samples were analyzed for mercury, organochlorine pesticides (OCPs), organosulphur compounds (OSCs), DIMP, dicyclopentadine (DCPD), volatile halocarbon (VHO), and volatile aromatic compounds (VAO), as Phase I samples contained compounds from these groups. Selected samples from the three regions were analyzed for thiodigycol (TDGCL) and isomethylphosphonate (IMPA) to screen for Army Agent Degradation Products (ADPs), because the ADP methods were not available during the Phase I program. Included in the analyses were 10 percent confirmation samples run by gas chromatograph/mass spectrometry (GC/MS) screening techniques. Confirmation samples were used not only to confirm GC compound-specific methods, but to identify other compounds that may be present.

In the Phase I program, samples were analyzed for OCPs, OSCs, and DIMP by GC/MS under the grouping of "semivolatile organic compounds" and for VHO, VAO, and DCPD under "volatile organic compounds". During the Phase II program, samples were analyzed for these compounds by GC compound-specific and GC/MS methods. The GC compound-specific methods are considered quantitative, and results are reported to two significant figures. In the GC/MS method, results are reported to one significant figure. Due to these differences, results obtained from the GC compound-specific and GC/MS methods may not be directly comparable. Phase I and Phase II methods were the same for mercury, DBCP, semivolatile organic (SVO), and volatile organic compounds (VO); therefore, the Phase I and Phase II results are directly comparable for these methods. Selected samples were analyzed for TDGCL and IMPA only in the Phase II program, as these methods were not available during the Phase I program. Appendix 36-3-II-A provides a complete list of analytes, analytical methods, and standard abbreviations used in the Phase I and Phase II investigations.

2.0 PHASE II FIELD OBSERVATIONS

Site 36-3 is in the south-central portion of Section 36. Vegetation is very sparse at this site. Surface topography of east-west linear depressions suggests trenching activities. Caving of surface soil in and around rusted 55-gallon drums can be observed throughout the site as well as numerous glass bottles of different sizes. Many of the bottles contain liquids.

Observations during Phase II drilling at Site 36-3 are summarized in Table 36-3-II-1. These observations correlate with Phase I observations concerning evidence of disposal and trenching at Site 36-3.

For safety purposes, air monitoring was conducted using a photoionization detector (PID) during drilling operations. Air monitoring at this site detected measurable levels of contaminants within the breathing zone and in the hollow-stem annulus. PID readings ranged from background to 90.

An M18A2 test kit was used at this site to detect the presence of chemical agents in boreholes and soil samples. Specifically at RMA, the M18A2 test kit is used to detect Sarin (GB), VX, mustard (H), and Lewisite (L) based on the knowledge that these agents were manufactured, stored, or demilitarized at the site. The detection limit for H agents is 0.5 milligrams per cubic meter (mg/m^3), and the detection limit for GB, VX, and L is 0.2 mg/m^3 . The detection limits for L and VX in soil are 5 parts per million (ppm) and 5.9 ppm, respectively. All M18A2 field test results for the detection of chemical agents at Site 36-3 were negative.

Samples at Site 36-3 were also analyzed for chemical agents by the RMA Surety Laboratory, because historical evidence indicated possible agent presence. A composite of intervals sampled was initially analyzed for GB, VX, H, and L. If agent had been detected, individual sample intervals from each boring would have been analyzed to identify stratigraphic location. No positive results from chemical agent testing were found at Site 36-3.

3.0 PHASE II GEOPHYSICAL EXPLORATION

No geophysical exploration was conducted at Site 36-3 for the Phase II investigation other than the borehole clearance program. The Phase II boring locations were cleared for safety purposes in accordance with the borehole clearance geophysical program as detailed in the Task 1 Technical Plan (ESE, 1985, RIC#85127R07). Borehole site clearance was used to ensure that drilling would not encounter buried unexploded ordnance (UXO) or other metal that could pose a significant safety risk. Magnetic intensity readings were obtained with a gradiometer. A 20-ft-square grid was centered on each boring location, and gradiometer readings were obtained at 5-ft intervals throughout the area. A contour map was prepared from the data and was used to place the boring in the safest location within the geophysical plot. Following borehole site clearance, a metal detector was used to check for surficial (0 to 2 ft) metal. Twenty-two of the 28 borings were relocated within their respective geophysical grid. Three of these borings (Borings 3444, 3446, and 3450) encountered impenetrable material (possibly concrete) and were relocated outside the geophysical grid (Table 36-3-II-1).

4.0 PHASE II ANALYTE LEVELS AND DISTRIBUTION

Table 36-3-II-2 contains indicator ranges and a statistical summary of Phase II analytical results. A summary of analytical data for each sample, including lithology and air monitoring results, is presented in Table 36-3-II-3. A tabulation of all analytical data associated with the Phase II program at Site 36-3 is presented in Appendix 36-3-II-B.

To assess the significance of metal and organic analytical values, indicator ranges were established during the Phase I Program. For organic compounds, the indicator range is the method detection limit. For metals, a range of values was selected to reflect the upper end of the expected natural range for each metal as normally found in RMA alluvial soil. The procedure for establishing indicator ranges is presented in the Introduction to the Contamination Assessment Reports (ESE, 1987b, RIC#88204R02). Concentrations within or above indicator ranges for Phase I and Phase II data are presented in Figure 36-3-II-1.

The results of the Phase II sampling program are discussed separately in the following groups:

- Twelve perimeter borings
- Eight non-trench borings
- Five inner-trench borings
- Three deep central borings

Perimeter Borings

Twelve borings (Borings 3430 through 3443) were drilled outside the site boundary to a depth of 5 ft to investigate the extent of potential contamination resulting from surface grading or wind dispersion. Target analytes included OCPs, OPCs, OSCs, DBCP, and DCPD in the 0- to 1- and 4- to 5-ft intervals. The 0- to 1-ft intervals of these 12 borings were also analyzed for mercury, the only metal target analyte. VHO and VAO compounds were also targeted for the 4- to 5-ft intervals of these 12 borings.

Aldrin, isodrin, dieldrin, and endrin were the most prevalent OCPs detected in the perimeter soil samples. The 0- to 1-ft intervals of all perimeter borings contained OCPs. The highest concentrations were detected in

Table 36-3-11-2. Summary of Analytical Results for Site 36-3 Phase II Soil Samples (page 1 of 2)

Constituent	Number of Samples*	Range	Concentrations (ug/g)				ESE Detection Limit	MDL Detection Limit	Indicator Level
			Mean**	Median**	Standard Deviation**				
ORGANOCHLORINE PESTICIDES (N=76)*									
Hexachlorocyclopentadiene	2	0.004->8000	640	600	1800	0.0026	DL	DL	DL
Aldrin	38	0.003->680	58	0.54	150	0.0018	DL	DL	DL
Isodrin	30	0.003->730	81	0.038	180	0.0011	DL	DL	DL
DDE, PP*	9	0.003-1.9	0.38	0.004	0.75	0.001	DL	DL	DL
Dieldrin	54	0.003-370	31	1.3	79	0.0012	DL	DL	DL
Ergo-in	50	0.002->400	44	0.54	110	0.001	DL	DL	DL
PCP, PP*	8	0.003-0.27	0.049	0.020	0.090	0.0023	DL	DL	DL
Chlordane	1	0.44	--	--	--	0.11	DL	DL	DL
ORGANOSULFUR COMPOUNDS (N=76)*									
DMSO	3	9.1-110	--	--	6.69	--	DL	DL	DL
1,4-Dithiane	3	3.3->12	--	--	0.57	--	DL	DL	DL
Chlorophenylmethyl sulfide	4	1.7-110	--	--	--	1.1	DL	DL	DL
Benzothiazole	2	61-260	--	--	--	1.1	DL	DL	DL
Chlorophenylmethyl sulfoxide	3	3.8-4.3	--	--	--	2.3	DL	DL	DL
DIMP (N=75)*									
DIMP	4	0.50-37	--	--	--	0.11	DL	DL	DL
DMP	2	0.19-0.67	--	--	--	0.13	DL	DL	DL
DCPD (N=76)*									
Bicycloheptadiene	1	10	--	--	--	5.1	DL	DL	DL
Methylisobutyl ketone	3	9.0-21	--	--	--	5.2	DL	DL	DL
Dicyclohexadiene	4	8.6-140	--	--	--	5.1	DL	DL	DL
DBCP (N=76)*									
DBCP (Hemagom)	13	0.009-700	57	0.39	190	0.005	DL	DL	DL
VOLATILE HALOCARBON COMPOUNDS (N=48)*									
Methylene Chloride	8	0.18-0.63	0.39	0.37	0.15	0.15	DL	DL	DL
1,1-Dichloroethene	1	0.21	--	--	--	0.12	DL	DL	DL
Chloroform	13	0.16-7.2	1.5	1.0	2.1	0.10	DL	DL	DL
1,2-Dichloroethane	1	0.45	--	--	--	0.08	DL	DL	DL
Carbon Tetrachloride	3	>1.0	--	--	--	0.12	DL	DL	DL
Trichloroethylene	3	0.11-1.0	--	--	--	0.09	DL	DL	DL
1,1,2-Trichloroethane	1	0.20	--	--	--	0.12	DL	DL	DL
Tetrachloroethylene	12	0.20-17	2.6	1.0	4.7	0.12	DL	DL	DL
Chlorobenzene	1	>1.0	--	--	--	0.18	DL	DL	DL
VOLATILE AROMATIC COMPOUNDS (N=48)*									
Benzene	7	0.14-26	5.5	2.5	8.9	0.081	DL	DL	DL
Toluene	13	0.19-380	57	4.5	120	0.096	DL	DL	DL
Ethylbenzene	6	0.17-9.9	3.1	2.0	3.4	0.043	DL	DL	DL
M-Xylene	7	0.18-12	3.4	2.4	4.1	0.053	DL	DL	DL
O- and/or P-Xylene	7	0.16-15	5.0	3.1	5.1	0.086	DL	DL	DL

Table 36-3-11-2. Summary of Analytical Results for Site 36-3 Phase 11 Soil Samples (page 2 of 2)

Constituent	Number of Samples*	Range	Concentrations (ug/g)			ESE Detection Limit	MRL Detection Limit	Indicator Level
			Mean**	Median**	Standard Deviation**			
HFA Fluoroacetic Acid (N=7)+	4	2.9-19 2.9-6.1	--	--	--	2.0	2.0	DL DL
HFA (N=10)+								
TGCL (N=10)+								DL
None detected								
VOLATILE ORGANICS (N=12)+								
Dicyclopentadiene	6	2->300	90	6	100	0.3	0.3	DL DL
Ethylbenzene	5	0.5-10	3	0.7	4	0.3	0.3	DL
Methylene Chloride	5	0.6-0.8	0.7	0.7	0.07	0.3	0.3	DL
Tetrachloroethene	6	1-100	30	5	50	0.3	0.3	DL
Toluene	8	0.7-300	40	2	100	0.3	0.3	DL
Trichloroethene	3	0.8-3	--	--	--	0.3	0.3	DL
P-Xylene	6	1-10	4	2	5	0.3	0.3	DL
DMS	3	0.7-30	10	4	10	0.3	0.3	DL
Benzene	5	0.4-30	10	4	10	0.5	0.5	DL
O- and/or P-Xylene	5	2-10	5	3	4	0.3	0.3	DL
Carbon Tetrachloride	2	8-9	--	--	--	0.3	0.3	DL
Chloroform	6	1-10	5	5	3	0.3	0.3	DL
Bicycloheptadiene	3	0.9-60	--	--	--	0.3	0.3	DL
DBCP (Nemagon)	5	2->30	8	2	10	0.3	0.3	DL
SEMI-VOLATILE ORGANICS (N=16)+								
Aldrin	4	4-700	--	--	--	0.9	0.9	DL DL
Chlorophenyl methyl sulfide	1	20	--	--	--	0.3	0.3	DL
Chlorophenyl methyl sulfone	1	0.8	--	--	--	0.3	0.3	DL
Chlorophenyl sulfone	2	4-100	--	--	--	0.3	0.3	DL
DBCP (Nemagon)	2	100-400	--	--	--	0.3	0.3	DL
Dicyclopentadiene	2	0.7-100	40	10	50	0.3	0.3	DL
Dieldrin	6	0.8-400	100	60	200	0.7	0.7	DL
Ecdrin	5	3-40000	--	--	--	1	1	DL
Hexachlorocycloheptadiene	4	900-1000	--	--	--	0.3	0.3	DL
Isodrin	2	--	--	--	--	--	--	
MERCURY (N=28)+								
Mercury	11	0.080-0.43	0.24	0.24	0.11	0.050	0.070	DL-0.10

* Number of samples in which constituent was detected. Only these sample results were used in statistical analyses.

** Statistics not calculated when constituent detected in fewer than five samples.

+ Number of samples analyzed by laboratory.

DL Detection limit.

Source: ESE. 1988.

Table 36-3-11-3. Concentrations of Target Analytes Above Detection Limits in Site 36-3 Phase II Soil Samples (page 1 of 12)

Boring Number	Depth (ft)	Geologic Material	PID*	BKD	BKD									
3430	3430 0-1 Silty Sand	3431 4-5 Silty Sand	3431 0-1 Silty Sand	3432 4-5 Silty Sand	3432 0-1 Silty Sand	3433 4-5 Silty Sand	3433 0-1 Silty Sand	3434 4-5 Silty Sand	3434 0-1 Silty Sand	3435 4-5 Silty Sand	3435 0-1 Silty Sand	3436 0-1 Silty Sand	3436 0-1 Silty Sand	
AIR MONITORING														
SOIL CHEMISTRY														
Organochlorine Pesticides (OCP) (ug/g)														
Hexachlorocyclopentadiene	<0.26	BDL	<0.52	BDL	0.006	BDL	<0.52	<0.026	1.1	<0.026	0.71	BDL	<0.26	BDL
Aldrin	<0.18	BDL	3.6	BDL	0.17	BDL	8.1	BDL	0.73	BDL	2.0	BDL	3.9	BDL
Isodrin	<0.11	BDL	14	BDL	0.016	BDL	38	BDL	<0.11	BDL	<0.22	BDL	0.29	BDL
OOC, PP,	0.03	BDL	1.4	BDL	BDL	BDL	1.9	BDL	<0.10	BDL	<0.20	BDL	0.004	BDL
Dieldrin	6.1	0.007	42	0.016	0.73	0.064	81	<0.012	9.5	<0.012	29	0.001	9.7	BDL
Eindrin	2.0	0.002	8.6	BDL	0.12	0.013	19	BDL	0.73	BDL	1.7	BDL	1.8	BDL
DDT, PP,	0.003	BDL	<0.47	BDL	BDL	<0.47	BDL	0.27	BDL	<0.47	BDL	0.017	BDL	<11
Chlordane	<11	BDL	<22	BDL	>0.44	BDL	<220	BDL	<11	BDL	<22	BDL	BDL	BDL
Organosulfur Compounds (OSC) (ug/g)														
DMSO	BDL	BDL												
1,4-Dithiane	BDL	BDL												
CPTMS	BDL	BDL												
Benzothiazole	BDL	BDL												
CPTMSO	BDL	BDL												
DIMP (ug/g)														
DICP	BDL	BDL												
DIMP	BDL	BDL												
DICP (ug/g)														
DBCP (Metagon)	BDL	BDL	0.014	BDL	BDL	BDL	BDL	0.009	BDL	BDL	BDL	BDL	BDL	BDL
Volatile Halocarbons (VHC) (ug/g)														
Methylene Chloride	NRQ	BDL	NRQ	BDL										
1,1-Dichloroethene	NRQ	BDL	NRQ	BDL										
Chloroform	NRQ	BDL	NRQ	BDL										
1,2-Dichloroethane	NRQ	BDL	NRQ	BDL										
Carbon Tetrachloride	NRQ	BDL	NRQ	BDL										
Trichloroethene	NRQ	BDL	NRQ	BDL										
1,1,2-Trichloroethane	NRQ	BDL	NRQ	BDL										
Tetrachloroethene	NRQ	BDL	NRQ	BDL										
Chlorobenzene	NRQ	BDL	NRQ	BDL										

< Higher detection limit due to dilution or soil matrix masking effects.
 > Quantitative concentration was not achieved due to dilution constraints.
 * As calibrated to an isobutylene standard.
 ** Detected in associated method blank.

BDL Below detection limit.
 BDL No reading above ambient background.
 NRQ Analysis not requested.
 NA Not analyzed.

Table 36-3-11-3. Concentrations of Target Analytes Above Detection Limits in Site 36-3 Phase II Soil Samples (page 2 of 12)

Boring Number	3430	3430	3431	3432	3433	3434	3435
Depth (ft)	0-1	4-5	0-1	0-1	0-1	0-1	0-1
Geologic Material	Silty Sand						
VOLATILE AROMATICS (VAO)							
Benzene	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL
Toluene	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL
Ethylbenzene	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL
M-Agylene	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL
O- and/or P-Xylene	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL
TPA							
Fluoroacetic Acid							
Methylphosphonic Acid							
TDCP							
Volatile Organics (VO) by GC/MS							
Dicullopentadiene	NRQ						
Ethylbenzene	NRQ						
Methylene Chloride	NRQ						
Tetrachloroethene	NRQ						
Toluene	NRQ						
Trichloroethene	NRQ						
M-Xylene	NRQ						
DMS	NRQ						
Benzene	NRQ						
O- and/or P-Xylene	NRQ						
Carbon Tetrachloride	NRQ						
Chloroform	NRQ						
Bicycloheptadiene	NRQ						
DBCP (Nemagon)	NRQ						
Semivolatile Organics (SVO) by GC/MS							
Aldrin	NRQ						
CAMS	NRQ						
CPMSO2	NRQ						
DBCP (Nemagon)	NRQ						
Dicullopentadiene	NRQ						
Diechlorin	NRQ						
Endrin	NRQ						
Hexachlorocyclohexadiene	NRQ						
Isodrin	NRQ						
Mercury	BDL	NRQ	0.24	NRQ	BDL	NRQ	0.43

< Higher detection limit due to dilution or soil matrix masking effects.
 > Quantitative concentration was not achieved due to dilution constraints.
 * As calibrated to an isobutylene standard.
 ** Detected in associated method blank.

BDL Below detection limit.
 BDL No reading above ambient background.
 NRQ Analysis not requested.
 NA Not analyzed.

Table 36-3-11-3. Concentrations of Target Analytes Above Detection Limits in Site 36-3 Phase II Soil Samples (page 3 of 12)

Boring Number	Depth (ft)	Geologic Material	0-1 Silty Sand	4-5 Silty Sand	4-5 Silty Sand	0-1 Silty Sand	4-5 Silty Sand	0-1 Sandy Saturated	4-5 Sandy Saturated	0-1 Sandy Silt	4-5 Sandy Silt	0-1 Silty Sand	4-5 Silty Sand	0-1 Silty Sand	4-5 Silty Sand
AIR MONITORING															
P10*															
SOIL CHEMISTRY															
Organochlorine Pesticides (OCP) (ug/g)															
Hexachlorocyclopentadiene															
Aldrin	BDL	<0.52	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Isodrin	BDL	<11	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	<0.18	BDL
DDE, PP,	BDL	<0.20	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.005	BDL
Dieldrin	BDL	0.003	230	BDL	0.17	BDL	1.2	BDL	1.5	BDL	4.4	BDL	0.004	BDL	0.067
Endrin	BDL	73	BDL	0.004	BDL	BDL	0.023	BDL	BDL	BDL	0.11	BDL	BDL	1.2	BDL
DDT, PP,	BDL	<0.47	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.36	BDL	BDL	0.26	BDL
Chlordane	BDL	<1100	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.009	BDL
Organosulfur Compounds (OSC) (ug/g)															
DMS	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,4-Dithiane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
CPhS	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Benzothiazole	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
CPhSO	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
DIMP (ug/g)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
DIPP	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
DMPP	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
DCPD (ug/g)															
Bicycloheptadiene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Methylisobutyl Ketone	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Dicyclopentadiene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
DChP (ug/g)															
DChCP (Nemagon)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Volatile Halocarbons (VHC) (ug/g)															
Methylene Chloride	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL
1,1-Dichloroethene	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL
Chloroform	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL
1,2-Dichloroethane	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL
Carbon Tetrachloride	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL
Trichloroethene	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL
1,1,2-Trichloroethane	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL
Tetrachloroethene	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL
Chlorobenzene	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL

< Higher detection limit due to dilution or soil matrix masking effects.

> Quantitative concentration was not achieved due to dilution constraints.

* As calibrated to an isobutylene standard.

** Detected in associated method blank.

BDL Below detection limit.

BRD No reading above ambient background.

NRQ Analysis not requested.

NA Not analyzed.

Table 36-3-11-3. Concentrations of Target Analytes Above Detection Limits in Site 36-3 Phase II Soil Samples (page 4 of 12)

Boring Number	Depth (ft)	Geologic Material	Silty Sand	Silty Silt	Sandy Silt	Sandy Silt	Silky Sand	Silky Sand	Silky Sand				
3436	3437	4-5 Silty Sand	3437 0-1 Silty Sand	3438 0-1 Silty Sand	3439 0-1 Silty Sand	3440 0-1 Silty Sand	3440 0-1 Silty Sand	3441 0-1 Silty Silt	3441 0-1 Sandy Silt	3442 0-1 Sandy Silt	3442 0-1 Silty Sand	3442 0-1 Silty Sand	3442 0-1 Silty Sand
VOLATILE AROMATICS (VAO)													
Benzene	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL
Toluene	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL
Ethylbenzene	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL
M-Xylene	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL
O- and/or P-Xylene	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL
IMPA													
Fluoroacetic Acid	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Methylphosphonic Acid	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
TDCI	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Volatile Organics (VO) by GC/MS													
Dicloropentadiene	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Ethylbenzene	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Methylen Chloride	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Tetrachloroethene	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Toluene	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Trichloroethene	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
M-Xylene	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
DMS	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Benzene	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
O- and/or P-Xylene	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Carbox Tetrachloride	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Chloroheptadiene	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
DBCP (Hexagon)	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Semi volatile Organics (SVO) by GC/MS													
Aldrin	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
CPMS	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
CPMS2	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
DBCP (Hexagon)	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Dicloropentadiene	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Dielein	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Endrin	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Hexachlorocycloheptadiene	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Isodrin													
Mercury		0.36	NRQ	BDL	NRQ								

< Higher detection limit due to dilution or soil matrix masking effects.
 > Quantitative concentration was not achieved due to dilution constraints.
 * As calibrated to an isobutylene standard.
 ** Detected in associated method blank.

BDL Below detection limit.
 BDL No reading above ambient background.
 NRQ Analysis not requested.
 NA Not analyzed.

Table 36-3-11-3. Concentrations of Target Analytes Above Detection Limits in Site 36-3 Phase II Soil Samples (page 5 of 12)

Boring Number	Depth (ft)	Geologic Material	Silty	Silty	Silty	Silty	Non-Silty	Silty	Silty	Non-Silty	Non-Silty	Sandy	Sandy	Silt	Silt	Silt	Silt
SOIL CHEMISTRY																	
PID*	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Organochlorine Pesticides (OCP) (ug/g)																	
Heptachlorocyclopentadiene	BDL	<0.52	BDL	BDL	>4.0	14	>2.0	1200	0.49	12	>8000	>1600	<36	<73	3300	1.1	1.1
Aldrin	BDL	1.5	BDL	BDL	<0.18	<1.8	<0.018	<9.1	<0.18	11	<0.22	<22	<44	<22	230	0.32	
Isodrin	BDL	<0.22	BDL	BDL	<0.11	<1.1	<0.011	<5.6	<0.11	<0.20	<0.20	<40	<20	<20	<0.10		
DDE, PP*	BDL	<0.20	BDL	BDL	<0.10	<1.0	<0.010	<5.0	<0.10	<0.20	<0.20	<40	<20	<20	<0.10		
Dieldrin	0.070	<0.48	BDL	0.012	4.5	4.6	0.072	<6.1	0.29	<0.61	<24	97	35	35	0.53		
Endrin	BDL	1.0	BDL	BDL	0.40	<1.0	<0.010	25	<0.10	1.1	<20	<40	190	<0.10			
DDT, PP*	BDL	<0.47	BDL	BDL	<0.23	<2.3	<0.023	<12	<0.23	<0.47	<47	<94	<47	<47	<0.23		
Chlordane	BDL	<22	BDL	BDL	<11	<10	<1.1	<550	<11	<22	<2200	<4400	<2200	<2200	<11		
Organosulfur Compounds (OSC) (ug/g)																	
DMS	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,4-Dithiane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
CPhS	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Benzothiazole	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
CPhSO	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
DMP (ug/g)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
DMPP	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
DCPD (ug/g)																	
Bicycloheptadiene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Methylisobutyl ketone	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Dirylenepentadiene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
DECP (ug/g)	0.016	BDL	BDL	0.26	<0.10	<0.10	<0.025	<50	<0.025	<2.5	<2.5	<50	<2.5	<2.5	<2.5	<2.5	<2.5
DECP (Nemagon)																	
Volatile Halocarbons (VHC) (ug/g)																	
Methylene Chloride	0.18**	NRQ	BDL	0.36	NRQ	BDL	BDL	BDL	NRQ	NRQ	BDL	0.31	0.46	BDL	NRQ	NRQ	NRQ
1,1-Dichloroethene	NRQ	NRQ	BDL	0.16	NRQ	BDL	BDL	BDL	NRQ	NRQ	BDL	0.22	>1.0	>1.0	>1.0	>1.0	>1.0
Chloroform	BDL	NRQ	BDL	0.16	NRQ	BDL	BDL	BDL	NRQ	NRQ	BDL	BDL	0.45	BDL	NRQ	NRQ	NRQ
1,2-Dichloroethane	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	BDL	NRQ	NRQ	BDL	BDL	>1.0	>1.0	>1.0	>1.0	>1.0
Carbon Tetrachloride	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	BDL	NRQ	NRQ	BDL	NRQ	>1.0	BDL	NRQ	NRQ	NRQ
Trichloroethene	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	BDL	NRQ	NRQ	BDL	NRQ	BDL	BDL	NRQ	NRQ	NRQ
1,1,2-Trichloroethane	BDL	NRQ	>1.0	0.75	NRQ	BDL	BDL	BDL	>1.0	NRQ	BDL	0.83	>1.0	>1.0	NRQ	NRQ	NRQ
Tetrachloroethene	BDL	NRQ	BDL	NRQ	BDL	NRQ	BDL	BDL	NRQ	NRQ	BDL	NRQ	BDL	BDL	NRQ	NRQ	NRQ
Chlorobenzene																	

< Higher detection limit due to dilution or soil matrix masking effects.

> Quantitative concentration was not achieved due to dilution constraints.

* As calibrated to an isobutylene standard.

** Detected in associated method blank.

BDL Below detection limit.

BDK No reading above ambient background.

NRQ Analysis not requested.

NA Not analyzed.

Table 36-3-11-3. Concentrations of Target Analytes Above Detection Limits in Site 36-3 Phase II Soil Samples (page 6 of 12)

Boring Number	Depth (ft)	Geologic Material	Silty Sand	Silty Sand	Non-Silty Sand	Silty Sand								
3442	3443	3443	3443	3444	3444	3444	3444	3445	3445	3445	3445	3445	3445	3446
5-6	0-1	Silty Sand	4-5	7-8	0-1	3-4	4-5	9-10	0-1	4-5	5-6	6-7	9-10	U-1
Silty	Silty	Silty Sand	Silty	Silty	Non-Silty	Silty	Non-Silty	Silty	Sandy	Non-Silty	Sandy	Silty	Sandy	Silty Sand
VOLATILE AROMATICS (VAC)														
Benzene	BDL	NRQ	BDL	BDL	NRQ	BDL	BDL	BDL	NRQ	BDL	0.14	2.5	>4.6	NRQ
Toluene	BDL	NRQ	BDL	BDL	NRQ	BDL	BDL	BDL	NRQ	BDL	0.26	4.5	>4.3	NRQ
Ethylbenzene	BDL	NRQ	BDL	BDL	NRQ	BDL	BDL	BDL	NRQ	BDL	1.0	3.0	1.8	NRQ
n-Xylene	BDL	NRQ	BDL	BDL	NRQ	BDL	BDL	BDL	NRQ	BDL	1.2	2.4	3.5	NRQ
O- and/or P-Xylene	BDL	NRQ	BDL	BDL	NRQ	BDL	BDL	BDL	NRQ	BDL	1.1	3.1	4.7	NRQ
IMPA														
Fluorooacetic Acid	NRQ	NA	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Methylphosphonic Acid	NRQ	BDL	2.9	NA	6.1	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
TDCCL														
Dicyclopentadiene	BDL	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Ethylbenzene	BDL	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Methylene Chloride	BDL	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Tetrachloroethene	BDL	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Toluene	BDL	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Trichloroethene	BDL	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
n-Xylene	BDL	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
DMDS	BDL	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Benzene	BDL	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
O- and/or P-Xylene	BDL	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Carbon Tetrachloride	BDL	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Chloroform	BDL	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Bicyclopentadiene	BDL	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
DBCP (Hemagon)	BDL	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Semivolatile Organics (SVOC) by GC/MS														
Aldrin	BDL	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
CDD	BDL	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
CPMSO2	BDL	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
DBCP (Hemagon)	BDL	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Dicyclopentadiene	BDL	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Dieldrin	BDL	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Endrin	BDL	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Hexachlorocyclohexadiene	BDL	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Isodrin	BDL	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Mercury	NRQ	0.30	NRQ	NRQ	NRQ	BDL	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	BDL

< Higher detection limit due to dilution or soil matrix masking effects.

> Quantitative concentration was not achieved due to dilution constraints.

* As calibrated to an isobutylene standard.

** Detected in associated method blank.

BDL Below detection limit.

NRQ No reading above ambient back ground.

NRQ Analysis not requested.

NA Not analyzed.

Table 36-3-11-3. Concentrations of Target Analyte: Above Detection Limits in Site 36-3 Phase II Soil Samples (page 8 of 12)

Boring Number	3446	3446	3447	3447	3448	3448	3449	3449	3450
Depth (ft)	5-6	7-8	0-1	4-5	9-10	0-1	4-5	8-9	3450
Geologic Material	Silty Sand	Silty Sand	Sandy Sand	Silt	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Sand
VOLATILE AROMATICS (VAO)									
Benzene	0.67	<8.1	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ
Toluene	<.48	<9.6	NRQ	BDL	NRQ	BDL	NRQ	BDL	NRQ
Ethylbenzene	<.22	<4.3	NRQ	BDL	2.1	NRQ	BDL	BDL	NRQ
M-Xylene	<.27	<5.3	NRQ	BDL	1.1	NRQ	BDL	BDL	NRQ
O- and/or P-Xylene	<.43	<8.6	NRQ	BDL	2.4	NRQ	BDL	BDL	NRQ
TMAA									
Fluoroacetic Acid	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Methylphosphonic Acid	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
TDCCL	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Volatile Organics (VO) by GC/MS									
Dicyclopentadiene	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Ethylbenzene	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Methylene Chloride	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Tetrachloroethene	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Toluene	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Trichloroethene	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
M-Xylene	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
DMDS	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Benzene	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
O- and/or P-Xylene	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Carbon Tetrachloride	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Chloroform	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Bicycloheptadiene	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
DBCP (Neagon)	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Semi-volatile Organics (SVO) by GC/MS									
Aldrin	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
C-PMS	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
C-PMSO ₂	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
DBCP (Neagon)	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Dicyclopentadiene	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Diehrin	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Endrin	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Hexachlorocycloheptadiene	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	NRQ
Isofuran	NRQ	NRQ	BDL	NRQ	NRQ	0.29	NRQ	NRQ	NRQ
Mercury	NRQ	NRQ	BDL	NRQ	NRQ	BDL	NRQ	NRQ	0.12

< Higher detection limit due to dilution or soil matrix masking effects.
 > Quantitative concentration was not achieved due to dilution constraints.
 * As calibrated to an isobutylene standard.
 ** Detected in associated method blank.

BDL Below detection limit.
 BDL No reading above ambient background.
 NRQ Analysis not requested.
 NA Not analyzed.

100% of Target Analytes Above Detection Limits in Site 36-3 Phase II Soil Samples (page 9 of 12)

Soil Chemistry		Soil Chemistry		Soil Chemistry		Soil Chemistry		Soil Chemistry		Soil Chemistry	
Parameter	Unit	Sample A	Sample B	Sample C	Sample D	Sample E	Sample F	Sample G	Sample H	Sample I	Sample J
Boring Number		3450	3451	3451	3452	3453	3453	3454	3454	3454	3454
Depth (ft)		7-8	0-1	3-4	8-9	4-5	5-6	4-5	5-6	4-5	9-10
Geologic Material		Saturated Clayey Silt	Saturated Clayey Fine Sand	Silty Clayey Sand	Silty Sand	Sandy Silt	Sandy Silt	Silty Silt	Silty Silt	Silty Silt	Silty Sand
AIR MONITOR INC		P10*		BKD		BKD		BKD		BKD	
SOIL CHEMISTRY		SOIL CHEMISTRY		SOIL CHEMISTRY		SOIL CHEMISTRY		SOIL CHEMISTRY		SOIL CHEMISTRY	
Organochlorine Pesticides (OCP) (ug/g)		Organochlorine Pesticides (OCP) (ug/g)		Organochlorine Pesticides (OCP) (ug/g)		Organochlorine Pesticides (OCP) (ug/g)		Organochlorine Pesticides (OCP) (ug/g)		Organochlorine Pesticides (OCP) (ug/g)	
Hexachlorocyclopentadiene		BDL		BDL		BDL		BDL		BDL	
Aldrin		0.004		0.015		0.004		<0.18		BDL	
Isodrin		0.007		BDL		0.016		<0.11		BDL	
DDT, PP'		BDL		BDL		BDL		BDL		BDL	
Dieldrin		0.031		0.55		0.011		<0.12		<0.12	
Endrin		0.009		0.021		0.012		0.006		BDL	
DDT, PP'		BDL		BDL		BDL		BDL		<0.10	
Chlordane		BDL		<11		<11		BDL		BDL	
Organosulfur Compounds (OSC) (ug/g)		Organosulfur Compounds (OSC) (ug/g)		Organosulfur Compounds (OSC) (ug/g)		Organosulfur Compounds (OSC) (ug/g)		Organosulfur Compounds (OSC) (ug/g)		Organosulfur Compounds (OSC) (ug/g)	
DMSO		BDL		BDL		BDL		BDL		BDL	
1,4-Dithiane		BDL		BDL		<11		BDL		BDL	
CPMS		BDL		BDL		<11		BDL		BDL	
Benzothiazole		BDL		BDL		<23		BDL		BDL	
CPhS0		BDL		BDL		BDL		BDL		BDL	
DIMP (ug/g)		BDL		BDL		BDL		BDL		BDL	
DIMP		BDL		BDL		BDL		BDL		BDL	
DIMP		BDL		BDL		BDL		BDL		BDL	
DCP (ug/g)		BDL		BDL		BDL		BDL		BDL	
Bicycloheptadiene		BDL		BDL		BDL		BDL		BDL	
Methyl Isobutyl Ketone		BDL		BDL		BDL		BDL		BDL	
Di-cyclopentadiene		BDL		BDL		BDL		BDL		BDL	
DBCP (ug/g)		0.023		BDL		0.014		BDL		BDL	
DBCP (hexagon)		BDL		BDL		BDL		BDL		BDL	
Volatile Halocarbons (VHC) (ug/g)		0.26		NFO		BDL		NFO		BDL	
Methylene Chloride		BDL		NFO		BDL		NFO		BDL	
1,1-Dichloroethene		BDL		NFO		BDL		NFO		BDL	
Chloroform		BDL		NFO		BDL		NFO		BDL	
1,2-Dichloroethane		BDL		NFO		BDL		NFO		BDL	
Carbon Tetrachloride		BDL		NFO		BDL		NFO		BDL	
Trichloroethene		BDL		NFO		BDL		NFO		BDL	
1,1,2-Trichloroethane		BDL		NFO		BDL		NFO		BDL	
Tetrachloroethene		BDL		NFO		BDL		NFO		BDL	
Chlorobenzene		BDL		NFO		BDL		NFO		BDL	

Wavelength selection due to dilution of soil matrix masking effects.

BDL Below detection limit.

No reading above ambient

Quantitative Concentration Test Kit
As calibrated to an isobutylene standard.
Detected in associated method blank.

----- Analytical Above Detection Limits in Site 36-3 Phase II Soil Samples (page 10 of 12)

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matrix dilution limit due to dilution or soil matrix masking effects.

Higher detection levels were often achieved.

Quantitative concentricity was not related to an identical one standard

in below detection limit.

Below reading above ambient background.

Academics not requested.

ANALYSIS NOT RECORDED
NOT ANNOTATED

Table 36-3-11-3. Concentrations of Target Analytes Above Detection Limits in Site 36-3 Phase II Soil Samples (page 11 of 12)

Boring Number		Depth (ft)		Geologic Material		Silty Sand		Sandy Silt		Clayey Silt		Clayey Silt		Silty Sand		Silty Sand	
AIR MONITORING																	
PID*		BKD	BKD	BKD	3.5	BKD	10	12	9	BKD	4	2	2				
SOIL CHEMISTRY																	
Organochlorine Pesticides (OCP) (ug/g)																	
Heptachloropentadiene	0.006	BDL	<0.26	BDL	0.39	<0.26	BDL	0.26	BDL	0.019	<2.6	BDL					
Aldrin	<0.18	0.043	36	0.008	430	82	<0.18	<0.18	BDL	33	<0.18						
Isodrin	0.034	0.032	57	0.011	>410	390	0.018	0.32	BDL	3.2	0.021						
DDC, PP,	BDL	<0.10	BDL	<0.10	<1.0	10	0.10	BDL	BDL	<1.0	BDL						
Dieldrin	2.3	0.57	1.8	0.044	360	55	1.1	1.5	BDL	9.2	<0.12						
Ecdrin	1.2	1.6	1.8	>460	460	160	0.19	0.72	BDL	7.3	0.53						
DDT, PP,	<0.23	BDL	<0.23	BDL	<0.23	<0.23	BDL	BDL	BDL	<2.3	BDL						
Chlordane	<11	BDL	<11	BDL	<11	<11	BDL	BDL	BDL	<110	BDL						
Organosulfur Compounds (OSC) (ug/g)																	
DMSO	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,4-Dithiane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
CMPs	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Benzothiazole	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
CMPSC	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
DIMP (ug/g)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	25	37	14	BDL	BDL	BDL	BDL	BDL	BDL	BDL
DIMP	0.19	BDL	BDL	BDL	BDL	BDL	BDL	<1.3	<1.3	<1.3	BDL	BDL	BDL	BDL	BDL	BDL	BDL
DCPD (ug/g)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	<51	51	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
8-cycloheptadiene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	<52	<52	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Methylisobutyl ketone	BDL	BDL	BDL	BDL	BDL	BDL	BDL	100	140	38	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Dicyclopentadiene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
DBCP (ug/g)	BDL	<0.10	0.39	1.2	BDL	0.83	23	<0.50	<0.50	<0.50	700	700	15.5				
Volatile Halocarbons (VHC) (ug/g)																	
Methylchloroform	NRQ	BDL	BDL	0.57	NRQ	<3.8	<3.78	<1.5	NRQ	<7.5	<7.5						
1,1-Dichloroethene	NRQ	BDL	BDL	NRQ	<3.0	<3.0	<1.2	NRQ	<6.0	<6.0	<0.24						
Chloroform	NRQ	BDL	0.30	0.20	NRQ	7.2	4.7	<1.0	NRQ	<5.0	<5.0	<0.20					
1,2-Dichloroethane	NRQ	BDL	BDL	NRQ	<2.0	<2.0	<0.80	NRQ	<4.0	<4.0	<0.16						
Carbon Tetrachloride	NRQ	BDL	BDL	NRQ	<3.0	<3.0	<1.2	NRQ	<6.0	<6.0	<0.24						
Trichloroethene	NRQ	BDL	BDL	NRQ	<2.3	<2.3	<0.90	NRQ	<4.5	<4.5	<0.18						
1,1,2-Trichloroethane	NRQ	BDL	BDL	NRQ	<3.0	<3.0	<1.2	NRQ	<6.0	<6.0	<0.24						
Tetrachloroethene	NRQ	BDL	0.20	NRQ	3.9	<3.0	<1.2	NRQ	<6.0	<6.0	<0.24						
Chlorobenzene	NRQ	BDL	BDL	NRQ	<4.5	<4.5	<1.8	NRQ	<9.0	<9.0	<0.36						

< Higher detection limit due to dilution or soil matrix masking effects.

> Quantitative concentration was not achieved due to dilution constraints.

* As calibrated to an isobutylene standard.

** Detected in associated method blank.

BDL Below detection limit.

BKD No reading above ambient background.

NRQ Analysis not requested.

NA Not analyzed.

Table 36-3-11-3. Concentrations of Target Analytes Above Detection Limits in Site 36-3 Phase II Soil Samples (page 12 of 12)

Boring Number	3456	3456	3456	3457	3457	3457	3458	3458	3458
Depth (ft)	0-1	4-5	8-9	16-17	0-1	8-9	9-10	13-14	5-6
Geologic Material	Silty Sand	Silty Sand	Silty Sand	Sandy Silt	Sandy Silt	Clayey Silt	Clayey Silt	Silty Sand	Silty Sand
VOLATILE AROMATICS (VAC)									
Benzene	NRQ	BDL	BDL	2.5	NRQ	<2.0	<.80	NRQ	<4.1
Toluene	NRQ	BDL	0.72	8.2	NRQ	.67	.16	NRQ	<4.1
Ethylbenzene	NRQ	BDL	BDL	BDL	NRQ	<1.1	<.43	NRQ	5.0
M-Xylene	NRQ	BDL	BDL	BDL	NRQ	<1.3	<.53	NRQ	<2.2
O- and/or P-Xylene	NRQ	BDL	BDL	BDL	NRQ	<2.2	<.86	NRQ	<2.7
TPFA									
Fluoracetic Acid	NRQ	NRQ	NRQ	NRQ	NRQ	12	2.9	BDL	<4.3
Methylphosphonic Acid	NRQ	NRQ	NRQ	NRQ	NRQ	BDL	BDL	NRQ	<1.7
TDCP									
NRQ	NRQ	NRQ	NRQ	NRQ	NRQ	BDL	BDL	NRQ	NRQ
Volatile Organics (VO) by GC/MS									
Dicyclopentadiene	NRQ	2	2	NRQ	NRQ	>300	>300	NRQ	NRQ
Ethylbenzene	NRQ	BDL	BDL	NRQ	NRQ	0.8	10	NRQ	BDL
Methylene Chloride	NRQ	BDL	BDL	NRQ	NRQ	0.7**	0.8**	NRQ	BDL
Tetrachloroethene	NRQ	BDL	BDL	NRQ	NRQ	4	2	NRQ	BDL
Toluene	NRQ	BDL	0.7	NRQ	NRQ	>300	40	NRQ	NRQ
Trichloroethene	NRQ	BDL	BDL	NRQ	NRQ	0.8	3	NRQ	NRQ
M-Xylene	NRQ	BDL	BDL	NRQ	NRQ	2	10	NRQ	BDL
DMSO	NRQ	BDL	BDL	NRQ	NRQ	0.7	BDL	NRQ	BDL
Benzene	NRQ	BDL	BDL	NRQ	NRQ	30	BDL	NRQ	BDL
O- and/or P-Xylene	NRQ	BDL	BDL	NRQ	NRQ	BDL	10	NRQ	BDL
Carbon Tetrachloride	NRQ	BDL	BDL	NRQ	NRQ	8	6	NRQ	BDL
Chloroform	NRQ	BDL	BDL	NRQ	NRQ	60	9	NRQ	BDL
Bicycloheptadiene	NRQ	BDL	BDL	NRQ	NRQ	2	10	NRQ	BDL
DBCP (Neagon)	NRQ	BDL	BDL	NRQ	NRQ			NRQ	BDL
Semivolatile Organics (SVOC) by GC/MS									
Aldrin	NRQ	BDL	BDL	NRQ	NRQ	700	300	NRQ	BDL
CDD	NRQ	BDL	BDL	NRQ	NRQ	<3	<3	NRQ	BDL
CPMS	NRQ	BDL	BDL	NRQ	NRQ	<3	<3	NRQ	NRQ
CPMSO ₂	NRQ	BDL	BDL	NRQ	NRQ	4	4	NRQ	BDL
DBCP (Neagon)	NRQ	BDL	BDL	NRQ	NRQ	100	400	NRQ	BDL
Dicyclopentadiene	NRQ	BDL	BDL	NRQ	NRQ	70	100	NRQ	NRQ
Endrin	NRQ	0.8	1	NRQ	NRQ	200	400	NRQ	BDL
Hexachlorocyclohexadiene	NRQ	BDL	BDL	NRQ	NRQ	<10	<10	NRQ	BDL
Isodrin	NRQ	BDL	BDL	NRQ	NRQ	900	1000	NRQ	BDL
Mercury									
	BDL	NRQ	NRQ	NRQ	NRQ	BDL	NRQ	NRQ	NRQ

< Higher detection limit due to dilution or soil matrix masking effects.
 > Quantitative concentration was not achieved due to dilution constraints.
 * As calibrated to an isobutylene standard.
 ** Detected in associated method blank.

Source: ESE, 1988.

BDL Below detection limit.
 BDL No reading above ambient background.
 NRQ Analysis not requested.
 NA Not analyzed.

N

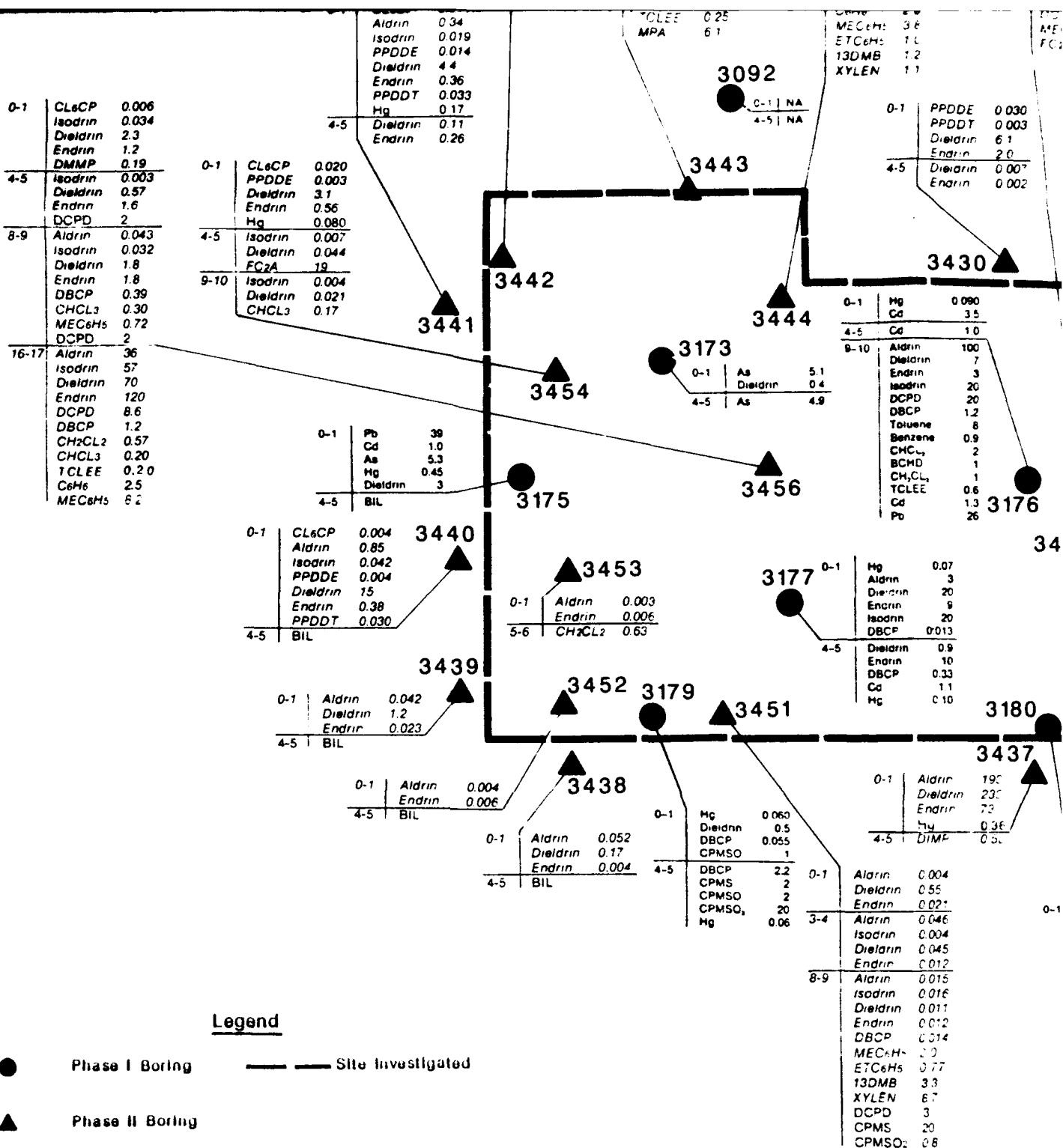
0-1	Aldrin	0.008
	Isodrin	0.011
	Dieldrin	0.044
	Endrin	0.018
	FC ₂ A	12
8-9	CL ₆ CP	0.39
	Aldrin	700
	Isodrin	900
	Dieldrin	360
	Endrin	100
	14DITH	7.6
	CPMSO	4.3
	DIMP	25
	DCPD	100
	DBCP	0.83
	CHCL ₃	7.2
	TCLEE	3.9
	C ₆ H ₆	26
	MEC ₆ H ₅	380
	FC ₂ A	2.9
	ETC ₆ H ₅	0.8
	CH ₂ CL ₂	0.7
	TCLEE	4
	TRCLE	0.8
	13DMB	2
	DMDS	0.7
	BCHPD	60
9-10	CL ₆ CP	0.49
	Dieldrin	0.29
4-5	CL ₆ CP	12
	Aldrin	11
	Endrin	1.1
	CHCL ₃	0.22
	TCLEE	0.83
5-6	CL ₆ CP	5000
	CH ₂ CL ₂	0.31
	CHCL ₃	5
	TCLEE	6
	C ₆ H ₆	0.14
	MEC ₆ H ₅	0.26
8-7	CL ₆ CP	40000
	Dieldrin	97
	CH ₂ CL ₂	0.46
	IIDCE	0.21
	CHCL ₃	10
	12DCLE	0.45
	CCL ₄	8
	TRCLE	2
	112TCE	0.20
	TCLEE	100
	C ₆ H ₆	2.5
	MEC ₆ H ₅	4.5
	ETC ₆ H ₅	3.0
	13DMB	2.4
	DIMP	37
	XYLEN	3.1
	DBCP	2
	DBCP	23
	CHCL ₃	4.7
	MEC ₆ H ₅	67
	ETC ₆ H ₅	9.9
	13DMB	12
	XYLEN	15
	CH ₂ CL ₂	0.8
	TCLEE	2
	TRCLE	3
	BCHPD	0.9
	Aldrin	82
	Isodrin	390
	Dieldrin	55
	Endrin	160
	14DITH	>3.3
	CPMSO	3.8
	DIMP	14
	DCPD	38
	MEC ₆ H ₅	16
	FC ₂ A	7.3
>4.0		
n 45		
0.40		
14		
n 4.6		
0.29		
>2.0		
n 0.072		
1200		
25		
9.1		
9.0		
>1.0		
>1.0		
>1.0		
>1.0		
2.8		
3.8		
1.0		
1.2		
1.1		

PPDDE
PPDDT
Dieldrin
Endrin
Dieldrin
Endrin

0.007

0.002

</



Legend

Phase I Boring — Site Investigated

▲ Phase II Boring

Sample Interval → 0-1 Hg 0.17 ← Level (ug/g)
 (III) 4-5 PPDDE 0.0098

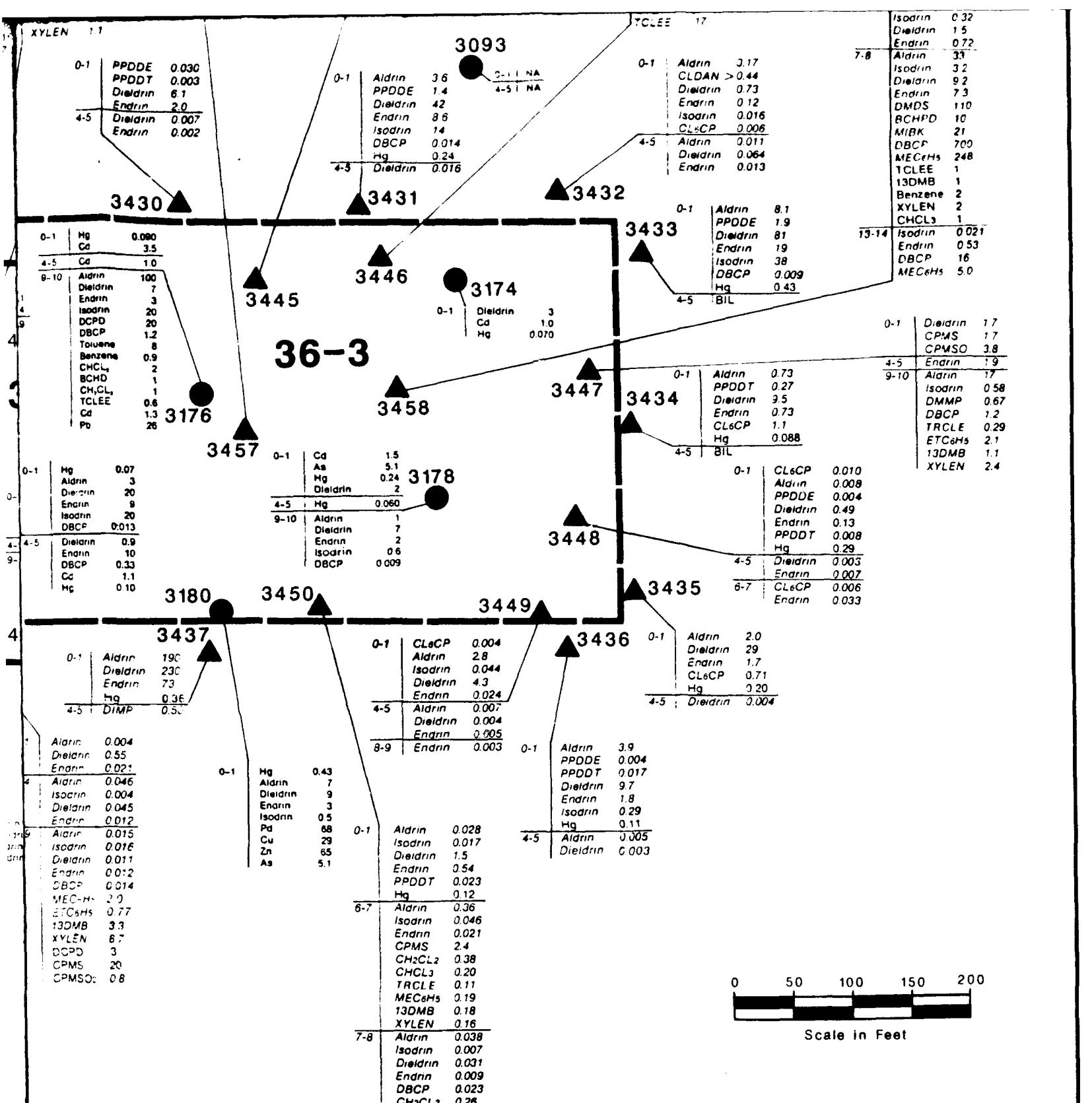
Analytes detected by different method In Phase II- See text

BIL - Below Indicator Level

- > The Greater than Symbol Denotes that the Quantitative Concentration was not Achieved Due to Dilution Constraints.

Figure 36-3-II-1

SITE 36-3, PHASE I AND PHASE II INVESTIGATION CHEMICAL ANALYSIS RESULTS



0 50 100 150 200
Scale in Feet

4

Borings 3431 (42 ppm); 3433 (81 ppm); and 3437 (230 ppm), and lower concentrations (<1.2 ppm) were detected in the 0- to 1-ft intervals of Borings 3438 and 3439, located southwest of Site 36-3.

Six of the 12 perimeter borings contained OCPs in the 4- to 5-ft interval at lower concentrations (<0.26 ppm). Three of these borings (Borings 3430, 3431, and 3432) are adjacent to the northern boundary of Site 36-3. Dieldrin was the most prevalent OCP in the 4- to 5-ft interval with concentrations ranging from 0.003 to 0.11 ppm. Two of these borings (Borings 3435 and 3436), located on the southeast corner of the site, contained dieldrin in the 4- to 5-ft interval at concentrations of 0.004 and 0.003 ppm, respectively. Boring 3436 (4 to 5 ft) also contained aldrin at a concentration of 0.005 ppm. Dieldrin was detected in Boring 3432 (4 to 5 ft) at 0.064 ppm, and Boring 3441, located on the northwest site boundary, contained dieldrin and endrin in the 4- to 5-ft interval at concentrations of 0.11 and 0.26 ppm, respectively.

Diisopropylmethyl phosphonate (DIMP) was detected in Boring 3437 (4 to 5 ft) at a concentration of 0.50 ppm, but dimethylmethyl phosphonate (DMMP) was not detected in any of the 24 samples analyzed. Nemagon (DBCP) was detected in two 0- to 1-ft samples at concentrations of 0.014 ppm (Boring 3431) and 0.009 ppm (Boring 3433). VAO and VHO compounds were not detected in any of the samples from the perimeter borings. Mercury was detected in 6 of the 12 samples obtained from the 0- to 1-ft interval. The range for mercury concentrations was 0.11 to 0.43 ppm.

Non-Trench Borings

Eight borings were drilled within Site 36-3 to confirm the lack of disposal trenches at specific locations within the site boundaries and to better define the lateral and vertical extent of contamination. These borings are summarized below:

Boring Number	Depth Drilled (ft)
3442	7
3443	8
3447	10
3448	7
3449	11

3450	9
3451	10
3452	5

Boring 3450 encountered an impenetrable object and was relocated. No trench debris was encountered at the relocated boring (Figure 36-3-II-1). Boring 3451 encountered plastic sheeting and oily sludge at 8 ft. The other borings listed above did not encounter trench debris, but high PID readings were noted while drilling Boring 3446 (Table 36-3-II-1).

Aldrin, dieldrin, endrin, isodrin, dichlorodiphenyltrichloroethane (DDT), and dichlorodiphenylethane (DDE) were detected in samples from these borings, with aldrin, dieldrin, and endrin being most prevalent. The highest OCP concentrations were generally detected in the 0- to 1-ft samples and decreased in the deeper sample intervals, with the exception of Boring 3447, which contained higher OCP concentrations in deeper intervals. Six of the 12 aldrin detections from these 23 samples were in the 0- to 1-ft interval at concentrations ranging from 0.004 to 2.8 ppm. Seven of the 14 dieldrin detections were also in the 0- to 1-ft interval at concentrations ranging from 0.49 to 4.3 ppm. Six of the 15 endrin detections were in the 0- to 1-ft interval at concentrations ranging from 0.006 to 1.0 ppm. DDT (three samples) and DDE (two samples) were detected at low concentrations (<0.023). All DDT and DDE detections were in 0- to 1-ft samples.

Chloromethylphenyl sulfide (CPMS) was detected in three samples at concentrations ranging from 1.7 to 2.0 ppm; Chloromethylphenyl sulfone (CPMSO₂), and chlorophenylmethyl sulfoxide (CPMSO) were detected at concentrations of 3.8 ppm and 0.8 ppm, respectively. The samples from Borings 3450 and 3451, located along the southern boundary of Site 36-3, contained CPMS and CPMSO₂ compounds and were collected near the water table. Boring 3447, located on the east side of the site, contained CPMS and CPMSO in the 0- to 1-ft sample.

DBCP was detected in four samples at concentrations ranging from 0.014 to 1.2 ppm; DCPD was detected at 3 ppm in Boring 3451 (8 to 9 ft). Boring 3447 (9 to 10 ft) had DMMP at a concentration of 0.67 ppm, and methylphosphonate, an ADP, was detected at 6.1 ppm in Boring 3443 (7 to 8 ft).

VHOs were detected in six samples, which were generally collected at the water table. Methylene chloride (CH_2Cl_2) was detected in four samples at concentrations ranging from 0.18 to 0.38 ppm; two samples contained chloroform (CHCl_3) at 0.16 and 0.20 ppm. Tetrachlorothene (TCLEE) and trichloroethene (TRCLE) were detected in two samples at low concentrations.

VAOs were detected in 3 of the 15 samples analyzed, generally in samples obtained at the water table. Ethylbenzene was detected twice at concentrations of 0.77 and 2.1 ppm, and two samples contained toluene at 0.19 and 2.0 ppm. Meta-xylene and xylene were detected in three samples at concentrations ranging from 0.18 to 3.3 ppm and 0.16 to 8.7 ppm, respectively.

Inner-Trench Borings

Five borings were drilled at locations within the disposal trench network identified from the geophysical program and the Phase I drilling data (ESE, 1987a, RIC#87203R01). These borings are summarized as follows:

Boring Number	Depth Drilled (ft)	Depth to Water Table (ft)	Number of Samples	Depth to Base of Disposal Trench (ft)
3444	10	10	4	4
3445	12	12	5	8
3446	9	8	3	8
3453	9	7	2	9
3454	10	10	3	No trench material observed
		Total	17	

* Table 36-3-II-1 describes observations and materials encountered for these borings, with the exception of Boring 3454.

OCPs were detected in samples from the inter-trench borings at detected concentrations as follows:

Compound	Number of Samples Containing OCP	Concentration Range (ppm)
CL ₆ CP	11	0.020 to 40,000
Aldrin	7	0.003 to 700
Isodrin	6	0.004 to 1,000
Dieldrin	12	0.021 to 370
Endrin	10	0.006 to 400

Elevated concentrations of aldrin, dieldrin, endrin, isodrin, and hexachlorocyclopentadiene (CL₆CP) were detected in the deeper sample intervals of Borings 3444, 3445, and 3446. Concentrations of CL₆CP as high as 40,000 ppm were detected in samples obtained within the disposal trench material. These borings are located in the northern area of Site 36-3 and may be located within the same east-west disposal trench. Boring 3453, located in the southwest area of Site 36-3, had fewer detections of OCPs at lower concentrations.

Three of the organosulphur compounds were detected in six of the samples. CPMs was detected in two (Boring 3446, 5 to 6 ft and 7 to 8 ft) samples at concentrations of 110 ppm and 26 ppm. Benzothiazole (BTZ) was detected in these two samples at concentrations of 260 ppm and 61 ppm, respectively. Dimethyldisulfide (DMDS) was detected in two samples, Boring 3444 (9 to 10 ft) at 9.1 ppm and Boring 3445 (9 to 10 ft) at 17 ppm.

There were no detections of DIMP or DMMP in the samples analyzed from the five inner-trench borings. DBCP was detected by GC analysis in the 6- to 7- and 9- to 10-ft samples of Boring 3445 at concentrations of 2 ppm. There were no detections of DCPD in any of the 17 samples, and mercury was not detected in any of the samples analyzed. FC2A was the only ADP detected in samples analyzed from the inner-trench borings. FC2A was detected in one sample, Boring 3454 (4 to 5 ft), at a concentration of 19 ppm.

Of the VHO compounds detected at Site 36-3, TCLEE, CH₂Cl₂, and carbon tetrachloride (CCL₄) had the most detections. TCLEE was detected in four samples at concentrations ranging from 0.83 to 17 ppm. CH₂Cl₂ had four detections at concentrations ranging from 0.31 to 0.63 ppm. Nine samples analyzed by GC/MS confirmed the detections noted above.

VAO compounds were detected in 15 samples at concentrations ranging from 0.67 to 2.8 ppm. Benzene and ethylbenzene were detected in three samples at concentrations ranging from 1.0 to 3.0 ppm. Meta-xylene and ortho-xylene were each detected in three samples at concentrations ranging from 1.2 to 3.5 ppm and 1.1 to 4.7 ppm, respectively. Toluene was detected in three samples at concentrations ranging from 0.26 to 4.5 ppm.

The analyte distributions and levels associated with the five inner-trench borings indicated high concentrations of OCPs in samples from disposal trench material that was wet to saturated. Borings 3444, 3445, and 3446 are approximately along the same east-west line (possibly the same disposal trench), and samples from these borings exhibited the highest OCP contamination. OSCs were detected at comparatively low concentrations, except for samples from Boring 3446 (5 to 6 ft and 7 to 8 ft). The southwestern boundary of Site 36-3 exhibited pesticide contamination at relatively low concentrations.

Deep_Central_Borings

Three deep borings were drilled along an east-west trend through the central portion of Site 36-3 (see Figure 36-3-II-1) to investigate vertical extent of contamination down to and below the water table. These borings are summarized as follows:

Boring Number	Depth Drilled _____(ft)____	Depth to Water Table (ft)	No. of Samples
3456	17	9	4
3457	14	9	4
3458	14	8	4
Total			12

Five of the target OCP compounds (CL₆CP, aldrin, isodrin, dieldrin, and endrin) were detected in samples from these borings as follows:

Compound	Number of Detections	Concentration Range (ppm)
CL ₆ CP	3	0.006 to 0.19
Aldrin	7	0.043 to 700
Isodrin	12	0.003 to 1000
Dieldrin	12	0.044 to 370
Endrin	11	0.11 to 400

The highest concentrations of aldrin, isodrin, dieldrin, and endrin were detected in the 9- to 10-ft sample from Boring 3457. The base of the disposal trench encountered by this boring was approximately 9 ft, and the water table was also at 9 ft. The higher concentrations of OCPs were detected in samples collected at or below the water table.

DMMP was detected at a concentration of 0.19 ppm in Boring 3456 (0 to 1 ft). The 8- to 9-, 9- to 10-, and 13- to 14-ft samples of Boring 3457 contained DIMP at concentrations ranging from 14 to 37 ppm.

CPMSO, DMDS, and 1,4, dithiane were detected in samples from Borings 3457 and 3458. CPMSO was detected at concentrations of 4.3 ppm and 3.8 ppm in the 8- to 9- and the 9- to 10-ft intervals of Boring 3457, respectively. DMDS was detected at a concentration of 110 ppm in Boring 3458 (7 to 8 ft). The 8- to 9-, 9- to 10-, and 13- to 14-ft samples of Boring 3457 contained 1,4 dithiane at concentrations from >3.3 ppm to 712 ppm.

DBCP was detected in five samples, which were collected at or below the water table, at concentrations ranging from 0.39 to 700 ppm. The highest concentration (700 ppm) was found in the 7- to 8-ft interval of Boring 3458. DCPD was detected in four samples at concentrations from 8.6 to 140 ppm. Bicycloheptadiene (BCHPD) and methylisobutyl ketone (MIBK) were identified in the 7- to 8-ft sample of Boring 3458 at concentrations of 10 and 21 ppm, respectively.

Chloroform, methylene chloride, and TCLEE were found in four, one, and two samples, respectively. For chloroform, the concentrations in the four samples ranged from 0.20 to 7.2 ppm. The 8- to 9- and 9- to 10-ft intervals of Boring 3457 contained concentrations of chloroform of 4.7 ppm and 7.2 ppm, respectively. CH_2Cl_2 was found at a concentration of 0.57 ppm in Boring 3456 (16 to 17 ft), and two samples contained TCLEE at concentrations of 0.20 ppm and 3.9 ppm. GC/MS screening for VO confirmed detection of these VHO compounds.

Relatively high concentrations of benzene, ethylbenzene, m-xylene, o,p-xylene, and toluene were detected in 12 samples. The most prevalent VAO was toluene, which was detected in seven samples at concentrations ranging from 0.72 to 380 ppm. High concentrations of toluene were also detected in the 8- to 9-ft (380 ppm) and 9- to 10-ft (67 ppm) samples of Boring 3457.

Mercury was below its detection level in the 0- to 1-ft intervals of Borings 3456, 3457, and 3458. FC2A was detected in all three sample intervals submitted for analysis (0 to 1 ft, 9 to 10 ft, and 13 to 14 ft) from Boring 3457 at concentrations ranging from 2.9 to 12 ppm.

Phase I and Phase II results confirm OCP contamination at Site 36-3. Higher concentrations were detected in the disposal trenches and in samples taken at or below the water table, and lower concentrations of OCPs were in the perimeter areas along the east, south, and west boundaries. DIMP and OSCs are present, but at relatively lower concentrations. The northeastern portion of Site 36-3 had the highest frequency of OSCs. The perimeter borings along the northern boundary reflected higher concentrations of the target analytes compared to the southern and western perimeter borings.

The data reporting procedures as described in the Laboratory Quality Assurance Plan for RMA (ESE, 1985, Appendix B, RIC#85127R07) require that all analyses on a sample be completed within the sample's respective holding time and that analytical results be corrected for percent recovery and moisture content. During routine sample analysis, analytical results must also fall within the Certified Range. Samples must also be diluted within the Certified Range provided that holding times have not expired.

During laboratory certification, an analytical method is tested over a certain concentration range to determine the Certified Range. A typical tested concentration range would be 0, 0.5X, 1.0X, 2.0X, 5.0X, and 10.0X, where X is the Target Reporting Limit (TRL). The Certified Reporting Limit (CRL) is determined by comparing the target and actual concentrations of the tested range. The upper Certified Range is the highest target concentration achieved.

If a sample analysis indicates that the sample was not diluted adequately to be within the Certified Range, the result is reported as greater than (>) the upper Certified Range times any dilution factors. If a sample has exceeded its holding time and the result is greater than the Certified Range, the result is reported as greater than the upper Certified Range. If holding times are exceeded in attempting to dilute the sample until all

results are within the Certified Range, results that are not identified above the Certified Range, but that may be present at concentrations above the certified detection limit, are reported as the detection limit times the dilution factor.

Several compounds detected by GC/MS were not included in the target compound list and were not conclusively identified. These compounds are included in the data presented in Appendix 36-3-II-B. Table 36-3-II-4 summarizes nontarget compounds detected at Site 36-3. It should be noted that an individual compound may have more than one retention time and that a particular retention time may be assigned to more than one compound. Therefore, Table 36-3-II-4 provides only a general indication of additional compounds that may be present.

Nontarget compounds were detected in 14 of the 16 samples analyzed by GC/MS, and 11 of these samples contained compounds related to pesticide manufacture. The most common compounds identified were unknown chlorinated compounds and impurities associated with CL₆CP as illustrated in the following table:

Nontarget Compound	Number of Detections	Concentration Range (ppm)	Comments
1,3,5-Cycloheptatriene	2	20	Shell waste
1,3-Cyclopentadiene	7	9 to 70	Raw material used in pesticide manufacturing
1,2-Dichloro 1,1-difluoro ethane	2	20 to 200	Freon refrigerant
Chlordene	2	60 to 70	Byproduct associated with chlordane
Chlorinated Unknowns	52	10 to 3000	
Diethylmethyl-phosphorothioate	3	60 to 100	Possibly pesticide related
CL ₆ CP Impurities	13	1 to 20000	

Table 36-3-11-4. Tentative Identification of Nontarget Compounds in Site 36-3 Phase II Soil Samples (page 1 of 6)

Boring Number	Interval Depth (ft.)	Unknown Number	Concentration Above Background (ppm)*	Sample Number	Lot	Best Fit	Comments +
3445	4-5	519	0.8	36-3-IX107	HTS	Tetrachloroethene	f
		549	1			Hexachloroethane	
		559	1			Trichlorocyclopentene	
		591	30			Octachlorocyclopentene	
		596	20			Hexachlorobenzene	
		614	6			Pentachloro(trichloroethyl)benzene	
		635	1			Unknown	a
		636	2			Unknown	b
		638	2			Mirex	
		649	2			Octachloropentafulvalene	
		651	2			Unknown	c
		651	2			Chloroethane	
		651	3	36-3-IX110	HNT	Hexachloroethane	
		146	300			Hexachlorobutadiene	
		178	200			Chlorocyclohexanol	
		543	40			Hexachloroethane	
		548	70			Triethyl ester phosphorodithioic acid	
		561	50			Tetrachlorobenzene	
		570	20			Unknown	d
		576	200			Pentachlorobenzene	
		584	900			Unknown hexachlorinated compound	
		587	30			Octachlorocyclopentene	
		591	5000			Tetrachloro(dichloromethylene)cyclopentadiene	
		597	20000			Unknown	e
		612	100			Pentachloro(trichloroethyl)benzene	
		614	400			Unknown	f
		617	30			Unknown	
		621	20			Unknown	
		623	20			Unknown	
		625	30			Unknown octachlorinated compound	
		628	400			Unknown heptachlorinated compound	
		629	60			Unknown nanochlorinated compound	
		634	90			Unknown nanochlorinated compound	
		635	100			Unknown nanochlorinated compound	
		642	30			Unknown heptachlorinated compound	
		646	30			Unknown hexachlorinated compound	
		648	200			Octachloropentafulvalene	
		651	600			Unknown octachlorinated compound	
		668	200	36-2-IX111	HNS	Unknown octachlorinated compound	
		668	20			Chloromethane	
		047	20			Methyl ester acetic acid	
		141	200			Tetrachloroethene	
		146	2000			Hexachloroethane	
		179	700			Hexachlorobutadiene	
		190	200			Trichlorocyclopentene	
		519	100			Tetrachloroethene	
		545	100			Unknown	
		549	2000			Hexachloroethane	
		558	100			Trichlorocyclopentene	
		561	100			Tetrachlorocyclopentadiene	

Table 36-3-11-4. Tentative Identification of Nontarget Compounds in Site 36-3 Phase II Soil Samples (page 2 of 6)

Boring Number	Interval Depth (ft)	Unknown Number	Concentration Above Background (ppm)*	Sample Number	Lot	Best Fit	Comments +
3445	6-7	562	600	36-3-IX11	HTS	Hexachlorobutadiene Pentachlorocyclopentene Biphenyl	
		569	200			Oxybisbenzene	
		574	100			Unknown pentachlorinated compound	
		575	100			Unknown tetrachlorinated compound	
		576	2000			Pentachlorobenzene	
		579	1000			Unknown heptachlorinated compound	
		583	200			Pentachlorobenzene	
		584	400			Unknown heptachlorinated compound	
		587	100			Unknown heptachlorinated compound	
		588	200			Octachlorocyclopentene	
		592	20000			Tetrachloro(dichloromethylene)cyclopentadiene	
		597	20000			Unknown tetrachlorinated compound	
		608	100			Unknown tetrachlorinated compound	
		612	100			Unknown tetrachlorinated compound	
		613	300			Pentachloro(trichloroethyl)benzene	
		614	1000			Unknown	
		615	100			Unknown	
		616	90			Unknown octachlorinated compound	
		617	400			Unknown heptachlorinated compound	
		618	600			Unknown octachlorinated compound	
		619	200			Unknown chlorinated compound	
		621	300			Unknown octachlorinated compound	
		622	2000			Unknown chlorinated compound	
		623	1000			Unknown chlorinated compound	
		624	600			Unknown chlorinated compound	
		625	200			Unknown chlorinated compound	
		626	100			Unknown octachlorinated compound	
		628	3000			Unknown octachlorinated compound	
		629	300			Unknown chlorinated compound	
		630	100			Unknown chlorinated compound	
		633	200			Unknown nanochlorinated compound	
		634	800			Unknown nanochlorinated compound	
		635	1000			Unknown nanochlorinated compound	
		636	100			Unknown heptachlorinated compound	
		638	1000			Mirex	
		639	300			Octachloropentafulvalene/Octachlorobiphenyl	
		641	100			Unknown octachlorinated compound	
		642	300			Unknown octachlorinated compound	
		644	200			Unknown chlorinated compound	
		648	2000			Octachloropentafulvalene	
		651	3000			Perchlorobiphenyl	
		668	2100			Octachlorodibenzofuran	
						Methylcyclohexane	
						Hexachloromethane	
						1,2-dichloro 1,1-difluoro ethane	
						1,2-dichloro 1,1-difluoro ethane	
						Hexachlorobutadiene	
						Hexachloroethane	
						Trimethyl ester phosphorodithioic acid	
3445	9-10	108	5	36-3-IX106	HNS		
		146	300				
		153	20				
		157	200				
		178	200				
		549	200				
		558	100				

Table 36-3-11-4. Tentative Identification of Nontarget Compounds in Site 36-3 Phase II Soil Samples (page 3 of 6)

Boring Number	Interval Depth (ft)	Unknown Number	Concentration Above Background (ppm)*	Sample Number	Lot	Best Fit	Comments +
3445	9-10	559	100	36-3-IX108	HTS	Trichlorocyclopentene	
		561	80			Hexachlorobutadiene	
		563	20			Trichlorocyclopentene	
		567	100			Trichlorocyclopentene	
		569	70			Tetrachlorocyclopentene	
		576	20			Oribisbenzene	
		581	100			Hexachlorobicycloheptadiene	
		584	50			Pentachlorobenzene	
		592	6000			Octachlorocyclopentene	
		596	500			Tetrachlorodichloromethylenecyclopentadiene	
		614	400			Pentachlorotrichloroethylenecyclopentadiene	
		623	40			Unknown octachlorinated compound	a
		624	30			Unknown octachlorinated compound	a
		626	20			Unknown octachlorinated compound	a
		629	800			Unknown octachlorinated compound	a
		633	20			Unknown nanochlorinated compound	a
		635	100			Unknown nanochlorinated compound	a
		636	100			Unknown nanochlorinated compound	a
		638	100			Nitrox	a
		643	30			Unknown heptachlorinated compound	a
		644	20			Unknown chlorinated compound	a
		649	200			Octachloropenafulvalene	a
		651	100			Unknown octachlorinated compound	a
3449	4-5	614	2	36-3-IX135	HTT	Dibutylester nonanedioic acid	d
3449	8-9	596	1	36-3-IX138	HTT	Tetrachlorodichloromethylenecyclopentadiene	
3451	3-4	611	1	36-3-IX152	HTT	Monobenzoatebenzenediol	a,f
		614	0.8			Unknown alkene	d
		615	8			Dibutylester nonanedioic acid	d
		629	1			DiOctylester hexadecanoic acid	d
3451	8-9	039	4	36-3-IX153	HMX	Carbon sulfide	f
		514	1		HTT	Toluene	
		525	0.9			Xylene	
		526	9			Xylene	
		529	10			Unknown	
		551	4			Unknown	a
		561	1			Anisophenol	
		565	1			Hydroxyphenyltrimethyl ammonium hydroxide	
		569	6			Methoxybenzenemethanamine	
		572	2			Unknown	a,f
		578	0.9			Unknown	a
		596	1			Unknown	a,f
		605	0.9			Octadecenol	d
		614	30			Unknown	a,f
3456	4-5	588	0.7	36-3-IX177	HTT	1,2-dichloropropane	
3456	8-9	086	3	36-3-IX180	HMY	Unknown	
		095	1			Unknown	

Table 36-3-11-1. Tentative identification of Non-target Compounds in Site 36-3 Phase II Soil Samples (page 4 of 6)

Table 36-3-11-4. Tentative Identification of Nontarget Compounds in Site 36-3 Phase II Soil Samples (page 5 of 6)

Boring Number	Interval Depth (ft.)	Unknown Number	Concentration Above Background (ppm)*	Sample Number	Lot	Best Fit	Comments +
3457	9-10	543	10			HTU	Tetrahydroethano indene
		544	10				Octahydronaphthalenyl substituted pentadecane
		552	100				Diethyl(methyl)phosphorothioate
		561	30				Unknown aromatic compound
		562	20				Hexachlorobutadiene
		574	20				Tetrachlorobenzene
		575	20				Unknown
		576	80				Unknown
		578	60				Unknown
		579	70				Hexachlorobicycloheptadiene
		581	500				Pentachlorobenzene
		584	8				Unknown pentachlorinated compound
		586	20				Unknown
		587	20				Unknown
		588	20				Heptachlorobicycloheptene
		591	600				Unknown chlorinated compound
		592	100				Unknown chlorinated compound
		595	50				Unknown chlorinated compound
		596	700				Unknown chlorinated compound
		598	10				Unknown chlorinated compound
		601	60				Chlordene
		603	20				Unknown
		607	20				Unknown
		608	20				Unknown
		609	30				Unknown chlorinated compound
		611	10				Unknown
		613	100				Unknown
		615	8				Unknown
		616	20				Unknown
		618	300				Unknown pentachlorinated compound
		619	10				Unknown
		622	50				Unknown
		625	20				Unknown
		626	9				Unknown
		630	80				Unknown pentachlorinated compound
		631	10				Unknown
		632	70				Unknown
		634	20				Unknown
		639	9				Unknown
3458	5-6	588	0.8	36-3-1X194		HTU	Hexadecane
		591	2				Trimethylpentadecane
		594	3				Heptadecane
		595	4				Tetramethylpentadecane
		596	2				Tetrachlorodichloromethylcyclopentadecane
		597	0.8				Unknown Alkane
		601	2				Tetramethylhexadecane
		605	1				Nonadecane
		614	2				Pentachlorotrichloroethoxybenzene

Table 36-3-114. Tentative Identification of Non-target Compounds in Site 36-3 Phase II Soil Samples (page 5 of 6)

Boring Number	Interval Depth (ft)	Unknown Number	Concentration Above Background (ppm)*	Sample Number	Lot	Best Fit	Comments +
3458	7-8	034	2	36-3-1X195	HMZ	Unknown 1,3,5-Cycloheptatriene	a
	111	20				Propanoic acid	
	158	2				Unknown	
	162	200				Hexachlorobutadiene	b
	178	3					

* Values reported are method blank corrected.

+ a. No positive identification.

b. Surfactant.

c. Plasticizer (Note: All phthalates and adipates will have this comment).

d. Derived from natural products.

e. Suspected laboratory contaminant.

f. Low concentration.

g. Low frequency of occurrence.

h. Ubiquitous.

i. Possible column bleed.

j. None detected.

Source: ESE, 1988.

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Heptachlorobicycloheptene	3	0.9 to 600	Endrin intermediate
Hexachlorobenzene	1	6	Shell waste
Hexachlorobicycloheptadiene	3	100 to 300	Endrin intermediate
Hexachlorobutadiene	7	3 to 700	
Hexachloroethane	5	1 to 2000	By-product of chlorination
Mirex	3	2 to 1000	Insecticide
Octachlorocyclopentene	4	30 to 20000	Shell waste
Pentachlorobenzene	10	2 to 1000	
Perchlorobiphenyl	1	3000	Polychlorinated biphenyl (PCB)
Tetrachlorobenzene	2	20	
Tetrachloroethane	3	0.8 to 200	
Toluene	1	1	
Trimethylesterphosphoro-dithioc acid	2	50 to 100	Possibly pesticide related
Xylene	3	0.9 to 10	

The 4- to 5-, 5- to 6-, 6- to 7-, and 9- to 10-ft samples from Boring 3445 contained elevated concentrations of Shell wastes, CL₆CP impurities, mirex, and chlorinated unknowns. The 6- to 7-ft sample also had perchlorobiphenyl, a PCB. Two samples from Boring 3457 (8 to 9 and 9 to 10 ft) contained endrin intermediates, chlordene, and several chlorinated unknowns. The 8- to 9-ft samples from Borings 3449, 3451, and 3456 as well as Boring 3453 (5 to 6 and 7 to 8 ft) also contained nontarget compounds related to pesticides.

Results of the Phase II sampling program at Site 36-3 will be assessed as part of the overall analysis of the Central Study Area Report.

5.0 REFERENCES

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APPENDIX 36-3-II-A
CHEMICALS NAMES, METHODS, AND ABBREVIATIONS

APPENDIX 36-3-II-A
CHEMICAL NAMES, METHODS, AND ABBREVIATIONS

PHASE I ANALYTES AND CERTIFIED METHODS

Analytes/Methods	Synonymous Names and Abbreviations	Standard Abbreviations
VOLATILE ORGANIC COMPOUNDS/GCMS	VOL	VO
1,1-Dichloroethane	1,1-Dichloroethane	11DCLE
1,2-Dichloroethane	1,2-Dichloroethane	12DCLE
1,1,1-Trichloroethane (TCA)	1,1,1-Trichloroethane	111TCE
1,1,2-Trichloroethane	1,1,2-Trichloroethane	112TCE
Benzene	Benzene	C ₆ H ₆
Bicycloheptadiene	Bicycloheptadiene (BCHD)	BCHPD
Carbon tetrachloride	Carbon tetrachloride	CCL ₄
Chlorobenzene	Chlorobenzene	CLC ₆ H ₅
Chloroform	Chloroform	CHCl ₃
Dibromochloropropane	Dibromochloropropane	DBCP
Dicyclopentadiene	Dicyclopentadiene	DCPD
Dimethyldisulfide	Dimethyldisulfide	DMDS
Ethylbenzene	Ethylbenzene	ETC ₆ H ₅
m-Xylene	meta-Xylene	13DMB
Methylene chloride	Methylene chloride	CH ₂ Cl ₂
Methylisobutyl ketone	Methylisobutyl ketone	MIBK
o,p-Xylene	ortho- and/or para-Xylene	XYLEN
Tetrachloroethene (PCE)	Tetrachloroethylene	TCLEE
Toluene	Toluene	MEC ₆ H ₅
Trans 1,2-dichloroethene	Trans 1,2-dichloroethylene	12DCE
Trichloroethene (TCE)	Trichloroethylene	TRCLE
SEMOVOLATILE ORGANIC COMPOUNDS/GCMS	EXTRACTABLE ORGANIC COMPOUNDS (EX)	SVO
1,4-Oxathiane	1,4-Oxathiane	OXAT
2,2-Bis (para-chlorophenyl)- 1,1-dichloroethane	Dichlorodiphenylethane	PPDDE
2,2-Bis (para-chlorophenyl) 1,1,1-trichloroethane	Dichlorodiphenyltrichloroethane	PPDDT
Aldrin	Aldrin	ALDRN
Atrazine	Atrazine	ATZ
Chlordane	Chlordane	CLDAN
Chlorophenylmethyl sulfide	p-Chlorophenylmethyl sulfide	CPMS
Chlorophenylmethyl sulfoxide	p-Chlorophenylmethyl sulfoxide	CPMSO
Chlorophenylmethyl sulfone	p-Chlorophenylmethyl sulfone	CPMSO ₂
Dibromochloropropane	Dibromochloropropane	DBCP
Dicyclopentadiene	Dicyclopentadiene	DCPD
Dieldrin	Dieldrin	DLDRN
Diisopropylmethyl phosphonate	Diisopropylmethyl phosphonate	DIMP

APPENDIX 36-3-II-A
CHEMICAL NAMES, METHODS, AND ABBREVIATIONS

Analytes/Methods	Synonymous Names and Abbreviations	Standard Abbreviations
SEMIVOLATILE ORGANIC COMPOUNDS (CONT)		
Dimethylmethyl phosphonate	Dimethylmethyl phosphonate	DMMP
Dithiane	Dithiane	DITH
Endrin	Endrin	ENDRN
Hexachlorocyclopentadiene	Hexachlorocyclopentadiene (HCPD)	CL ₆ CP
Isodrin	Isodrin	ISODR
Malathion	Malathion	MLTHN
Parathion	Parathion	PRTHN
Supona	2-Chloro-1(2,4-dichlorophenyl) vinyldiethyl phosphate	SUPONA
Vapona	Vapona	DDVP
METALS/ICP		
Cadmium	ICAP	ICP
Chromium	Cadmium	CD
Copper	Chromium	CR
Lead	Copper	CU
Zinc	Lead	PB
Zinc	Zinc	ZN
SEPARATE ANALYSES		
Arsenic/AA	Arsenic	AS
Mercury/AA	Mercury	HC
Dibromochloropropane/GC	Dibromochloropropane	DBCP

APPENDIX 36-3-II-A
CHEMICAL NAMES, METHODS, AND ABBREVIATIONS

PHASE II ANALYTES AND CERTIFIED METHODS

Analytes/Methods	Synonymous Names and Abbreviations	Standard Abbreviations
VOLATILE ORGANIC COMPOUNDS/GCMS (Same as Phase I)	VOL	VO
SEMICVOLATILE ORGANIC COMPOUNDS/GCMS (Same as Phase I)	EXTRACTABLE ORGANIC COMPOUNDS (EX)	SVO
VOLATILE HALOCARBON COMPOUNDS/GCCON	PURGEABLE HALOCARBONS (PHC)	VHO
1,1-Dichloroethane	1,1-Dichloroethane	11DCLE
1,2-Dichloroethane	1,2-Dichloroethane	12DCLE
1,1-Dichloroethene	1,1-Dichloroethene	11DCE
1,1,1-Trichloroethane (TCA)	1,1,1-Trichloroethane	111TCE
1,1,2-Trichloroethane	1,1,2-Trichloroethane	112TCE
Carbon tetrachloride	Carbon tetrachloride	CCL ₄
Chlorobenzene	Chlorobenzene	CLC ₆ H ₅
Chloroform	Chloroform	CHCl ₃
Methylene chloride	Methylene chloride	CH ₂ Cl ₂
Trans 1,2-dichloroethylene	Trans 1,2-dichloroethylene	12DCE
Tetrachloroethylene (PCE)	Tetrachloroethylene	TCLEE
Trichloroethylene (TCE)	Trichloroethylene	TRCLE
VOLATILE HYDROCARBON COMPOUNDS/GCFID	DCPD	HYDCBN
Bicycloheptadiene	Bicycloheptadiene (BCHD)	BCHPD
Dicyclopentadiene	Dicyclopentadiene	DCPD
Methylisobutyl ketone	Methylisobutyl ketone	MIBK
VOLATILE AROMATIC COMPOUNDS/GCPID	PURGEABLE AROMATICS (PAM)	VAO
Benzene	Benzene	C ₆ H ₆
Ethylbenzene	Ethylbenzene	ETC ₆ H ₅
m-Xylene	meta-Xylene	13DMB
o,p-Xylene	ortho- and/or para-Xylene	XYLEN
Toluene	Toluene	MEC ₆ H ₅
ORGANOCHLORINE PESTICIDES/GCEC		OCP
2,2-Bis (para-chlorophenyl)- 1,1-dichloroethane	Dichlorodiphenylethane	PPDDE
2,2-Bis (para-chlorophenyl)- 1,1,1-trichlorethane	Dichlorodiphenyltrichloroethane	PPDDT
Aldrin	Aldrin	ALDRN
Chlordane	Chlordane	CLDAN
Dieldrin	Dieldrin	DLDRN
Endrin	Endrin	ENDRN
Hexachlorocyclopentadiene	Hexachlorocyclopentadiene	CL ₆ CP
Isodrin	Isodrin	ISODR

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APPENDIX 36-3-II-A
CHEMICAL NAMES, METHODS, AND ABBREVIATIONS

<u>Analytes/Methods</u>	<u>Synonymous Names and Abbreviations</u>	<u>Standard Abbreviations</u>
ORGANOPHOSPHOROUS PESTICIDES/GCNPD	ORGANOPHOSPHOROUS COMPOUNDS (OPC)	OPP
Atrazine	Atrazine	ATZ
Malathion	Malathion	MLTHN
Parathion	Parathion	PRTHN
Supona	2-Chloro-1(2,4-dichlorophenyl) vinylidethyl phosphate	SUPONA
Vapona	Vapona	DDVP
ORGANOPHOSPHOROUS COMPOUNDS/GCFPD	DIMP	OPC
Diisopropylmethyl phosphonate	Diisopropylmethyl phosphonate	DIMP
Dimethylmethyl phosphonate	Dimethylmethyl phosphonate	DMMP
ORGANOSULPHUR COMPOUNDS/GCFPD		OSC
1,4-Oxathiane	1,4-Oxathiane	OXAT
Benzothiazole	Benzothiazole	BTZ
Chlorophenylmethyl sulfide	p-Chlorophenylmethyl sulfide	CPMS
Chlorophenylmethyl sulfone	p-Chlorophenylmethyl sulfone	CPMSO ₂
Chlorophenylmethyl sulfoxide	p-Chlorophenylmethyl sulfoxide	CPMSO
Dimethyldisulfide	Dimethyldisulfide	DMDS
Dithiane	Dithiane	DITH
METALS/ICP	ICAP	ICP
Cadmium	Cadmium	CD
Chromium	Chromium	CR
Copper	Copper	CU
Lead	Lead	PB
Zinc	Zinc	ZN
SEPARATE ANALYSES		
Arsenic/AA	Arsenic	AS
Mercury/AA	Mercury	HG
Dibromochloropropane/GC	Dibromochloropropane	DBCP

APPENDIX 36-3-II-A
CHEMICAL NAMES, METHODS, AND ABBREVIATIONS

<u>Analytes/Methods</u>	<u>Synonymous Names and Abbreviations</u>	<u>Standard Abbreviations</u>
ARMY AGENT DEGRADATION PRODUCTS:		ADP
AGENT PRODUCTS/HPLC	TDGCL	
Chloroacetic Acid	Chloroacetic acid	CLC2A
Thiodiglycol	Thiodiglycol (TDG)	TDGCL
AGENT PRODUCTS/IONCHROM	IMPA	GBDP
Fluoroacetic acid	Fluoroacetic acid	FC2A
Isopropylmethylphosphonic acid	Isopropylmethylphosphonate	IMPA
Methylphosphonic acid	Methylphosphonate	MPA
 <u>Methods</u>		<u>Abbreviations</u>
Atomic Absorption Spectroscopy		AA
Gas Chromatography/Conductivity Detector		GCCON
Gas Chromatography/Electron Capture		GCEC
Gas Chromatography/Flame Ionization Detector		GCFID
Gas Chromatography/Flame Photometric		GCFPD
Gas Chromatography/Mass Spectrometry		GCMS
Gas Chromatography/Nitrogen Phosphorous Detector		GCNPD
Gas Chromatography/Photoionizaton Detector		GCPID
High Performance Liquid Chromatography		HPLC
Inductively Coupled Argon Plasma		ICP, ICAP
Ion Chromatography		IONCHROM

APPENDIX 36-3-II-B
PHASE II CHEMICAL DATA

PROJECT NUMBER 84936 0300
FIELD GROUP 36-3-1
PROJECT MANAGER JJV
LAB COORDINATOR JOE VONDRICK

PARAMETERS	UNITS	STORRET #	DATE	TIME	3430A 36-3-1	3430B 36-3-1	3432A 36-3-1	3433A 36-3-1	3434A 36-3-1	3435A 36-3-1	3436A 36-3-1	3436B 36-3-1
BICLCP (NEMAGON)	UG/G-DRY	98652	<0.005	<0.005	0.014	<0.005	<0.005	<0.009	<0.005	<0.005	<0.005	<0.005
BICYCLOHEPTADIENE	UG/G-DRY	98686	<5.08	<5.08	<5.08	<5.08	<5.08	<5.08	<5.08	<5.08	<5.08	<5.08
METHYLISOBUTYLKETONE	UG/G-DRY	98696	<5.24	<5.24	<5.24	<5.24	<5.24	<5.24	<5.24	<5.24	<5.24	<5.24
DICYCLOPENTADIENE	UG/G-DRY	98651	<5.12	<5.12	<5.12	<5.12	<5.12	<5.12	<5.12	<5.12	<5.12	<5.12
MERCURY	UG/G-DRY	71921	<0.070	0.241	<0.070	0.428	0.428	0.088	0.088	0.198	0.106	0.357
BENZENE	UG/G-DRY	98699	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081
TOLUENE	UG/G-DRY	98691	<0.096	<0.096	<0.096	<0.096	<0.096	<0.096	<0.096	<0.096	<0.096	<0.096
ETHYLBENZENE	UG/G-DRY	98688	<0.043	<0.043	<0.043	<0.043	<0.043	<0.043	<0.043	<0.043	<0.043	<0.043
M-1-LENE	UG/G-DRY	98695	<0.053	<0.053	<0.053	<0.053	<0.053	<0.053	<0.053	<0.053	<0.053	<0.053
C- AND/OR P-XYLENE	UG/G-DRY	98700	<0.086	<0.086	<0.086	<0.086	<0.086	<0.086	<0.086	<0.086	<0.086	<0.086
METHYLENE CHLORIDE	UG/G-DRY	98689	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15
1,1-DICHLOROETHENE	UG/G-DRY	98789	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12
1,1-DICHLOROPHANE	UG/G-DRY	98683	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13
TRANS-1,2-DICHLOROET	UG/G-DRY	98687	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15
CHLOROFORM	UG/G-DRY	98682	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
1,2-DICHLOROTHANE	UG/G-DRY	98684	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08
1,1,1-TRICHLORO-	UG/G-DRY	98692	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12
ETHANE TETRACHLORIDE	UG/G-DRY	98690	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12
TRICHLOROETHENE	UG/G-DRY	98694	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09
1,1,2-TRICHLORO-	UG/G-DRY	98693	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12
ETHANE TETRACHLORIDE	UG/G-DRY	98695	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12
CHLOROBENZENE	UG/G-DRY	98681	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18
MEFCUP-1, SED	UG/G-DRY	71921	v9									

ENVIRONMENTAL SCIENCE & ENGINEERING			05/09/86	PROJECT NAME	PMA TASK 1 PHASE 1	DATE#
PROJECT NUMBER 84936 0300 FIELD GROUP 36-3-1 36-3-1RP			PROJECT MANAGER JJV LAB COORDINATOR JOE VONDFICH			
PARAMETERS	STORE#	3430A	3431A	3432A	3432B	SAMPLE ID#
	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	3433A
UNITS	METHOD	1	2	8	9	3433B
DATE TIME		07/06/87 11:21	07/06/87 12:04	07/07/87 07:10	07/07/87 07:38	07/07/87 07:45
						06:45
ALDRIN	UG/G-DRY	99				
ATRAZINE	UG/G-DRY	98655				
CHLORDANE	UG/G-DRY	99				
		98361				
P-CLPHENYL METHY-	UG/G-DRY	99				
SULFIDE	UG/G-DRY	98653				
P-CLPHENYL METHY-	UG/G-DRY	99				
SULFOXIDE	UG/G-DRY	98654				
P-CLPHENYL METHY-	UG/G-DRY	99				
SULFONE	UG/G-DRY	98703				
DBCP (NEMAGON)	UG/G-DRY	99				
DICYCLOPENTADIENE	UG/G-DRY	98652				
B-DDE, PP,	UG/G-DRY	99				
DDT, PP,	UG/G-DRY	98363				
DDT, PP,	UG/G-DRY	99				
DIELDRIM	UG/G-DRY	98364				
DIMP	UG/G-DRY	99				
1,4 DITHIANE	UG/G-DRY	98365				
DMP	UG/G-DRY	99				
ETY-PARATHION	UG/G-DRY	99				
ENDRIN	UG/G-DRY	98650				
		98645				
		98657				
		98659				
		98661				
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		98665				
		98667				
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ENVIRONMENTAL SCIENCE & ENGINEERING 05/09/68
PROJECT NUMBER 94026 0200

PAGE # 4

PROJECT NUMBER 84530 U300
FIELD GROUP 36-3-1
36-3-IRP

PROJECT NAME PHA TASK | PHASE 1
PROJECT MANAGER JJV
LAB COORDINATOR JOE VONDRIKA

ENVIRONMENTAL SCIENTIST & ENGINEERING

PROJECT NUMBER 84936 03000

FIELD GROUP 36-3-1

36-3-1FP

PROJECT NAME FMS TASK 1 PHASE 1

PROJECT MANAGER J.J.V.

LAB COORDINATOR JOE VONDICK

PARAMETERS	UNITS	STOKE #	METHOD	DATE	TIME	SAMPLE ID #	3433A	3433B	3434	34346	34358	34366	3437A
MPA	UG/G	3430A	34306	07/06/87	11:21	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1
UNK 007	UG/G	3430A	34306	07/06/87	12:04	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1
UNK 034	UG/G	97383	AAA9	07/06/87	07:10	9	8	15	16	22	23	29	30
UNK 039	UG/G	90034	AAA9	07/06/87	07:38	06:54	06:54	09:19	08:24	08:45	09:54	10:14	10:16
UNK 047	UG/G	90039	W9	07/06/87	07:10	07:10	07:10	07:10	07:10	07:10	07:10	07:10	07:10
UNK 058	UG/G	90047	W9	07/06/87	07:38	06:54	06:54	09:19	08:24	08:45	09:54	10:14	10:16
UNK 075	UG/G	90058	W9	07/06/87	07:38	06:54	06:54	09:19	08:24	08:45	09:54	10:14	10:16
UNK 086	UG/G	90075	W9	07/06/87	07:38	06:54	06:54	09:19	08:24	08:45	09:54	10:14	10:16
UNK 095	UG/G	90086	W9	07/06/87	07:38	06:54	06:54	09:19	08:24	08:45	09:54	10:14	10:16
UNK 102	UG/G	90095	W9	07/06/87	07:38	06:54	06:54	09:19	08:24	08:45	09:54	10:14	10:16
UNK 108	UG/G	90102	W9	07/06/87	07:38	06:54	06:54	09:19	08:24	08:45	09:54	10:14	10:16
UNK 111	UG/G	90108	W9	07/06/87	07:38	06:54	06:54	09:19	08:24	08:45	09:54	10:14	10:16
UNK 112	UG/G	90111	W9	07/06/87	07:38	06:54	06:54	09:19	08:24	08:45	09:54	10:14	10:16
UNK 114	UG/G	90112	W9	07/06/87	07:38	06:54	06:54	09:19	08:24	08:45	09:54	10:14	10:16
UNK 116	UG/G	90114	W9	07/06/87	07:38	06:54	06:54	09:19	08:24	08:45	09:54	10:14	10:16
UNK 121	UG/G	90116	W9	07/06/87	07:38	06:54	06:54	09:19	08:24	08:45	09:54	10:14	10:16
UNK 124	UG/G	90121	W9	07/06/87	07:38	06:54	06:54	09:19	08:24	08:45	09:54	10:14	10:16
UNK 141	UG/G	90124	W9	07/06/87	07:38	06:54	06:54	09:19	08:24	08:45	09:54	10:14	10:16
UNK 143	UG/G	90141	W9	07/06/87	07:38	06:54	06:54	09:19	08:24	08:45	09:54	10:14	10:16
UNK 144	UG/G	90143	W9	07/06/87	07:38	06:54	06:54	09:19	08:24	08:45	09:54	10:14	10:16
UNK 146	UG/G	90146	W9	07/06/87	07:38	06:54	06:54	09:19	08:24	08:45	09:54	10:14	10:16
UNK 147	UG/G	90147	W9	07/06/87	07:38	06:54	06:54	09:19	08:24	08:45	09:54	10:14	10:16

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UNK552	UG/C	Q9	90552
UNK558	UG/C	Q9	90558
UNK559	UG/C	Q9	90559
UNK561	UG/C	Q9	90561
UNK562	UG/C	Q9	90562
UNK563	UG/C	Q9	90563
UNK565	UG/C	Q9	90565
UNK567	UG/C	Q9	90567
UNK569	UG/C	Q9	90569
UNK570	UG/C	Q9	90570
UNK572	UG/C	Q9	90572
UNK574	UG/C	Q9	90574
UNK575	UG/C	Q9	90575
UNK576	UG/C	Q9	90576
UNK578	UG/C	Q9	90578
UNK579	UG/C	Q9	90579
UNK581	UG/C	Q9	90581
UNK583	UG/C	Q9	90583
UNK584	UG/C	Q9	90584
UNK586	UG/C	Q9	90586
UNK587	UG/C	Q9	90587
UNK588	UG/C	Q9	90588
UNK591	UG/C	Q9	90591

ENVIRONMENTAL SCIENCE & ENGINEERING GE-09-BE
 PROJECT NUMBER: 84926-0501
 FIELD GROUP: 36-3-1
 36-3-1RP
 PROJECT NAME: FMU * ASK I PHASE 1
 PROJECT MANAGER: JJA
 LAB. COORDINATOR: JJC
 POC: JJC

UNK592	UG/C	90592
UNK594	UG/C	90594
UNK595	UG/C	90595
UNK596	UG/C	90596
UNK597	UG/C	90597
UNK598	UG/C	90598
UNK601	UG/C	90601
UNK603	UG/C	90603
UNK605	UG/C	90605
UNK607	UG/C	90607
UNK608	UG/C	90608
UNK609	UG/C	90609
UNK611	UG/C	90611
UNK612	UG/C	90612
UNK613	UG/C	90613
UNK614	UG/C	90614
UNK615	UG/C	90615
UNK616	UG/C	90616
UNK617	UG/C	90617
UNK618	UG/C	90618
UNK619	UG/C	90619
UNK621	UG/C	90621
UNK622	UG/C	90622

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ENVIRONMENTAL SCIENCE & ENGINEERING UT 119 E&E

PROJECT NUMBER 64936 0300
 FIELD GROUP 36-3-1
 36-3-TAP

PROJECT NAME FMA TEST 1 PHASE 1
 PROJECT MANAGER JJV
 LAB COORDINATOR JOE VONDEICH

PARAMETERS	STATION #	METHOD	SAMPLE 10-A				SAMPLE 10-B			
			3430A	3430B	3432A	3432B	3433A	3433B	3434A	3434B
	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	
	1	2	6	9	15	16	22	23	29	
UNITS										
DATE	07/06/87	07/06/87	07/07/87	07/07/87	07/06/87	07/07/87	07/07/87	07/07/87	07/07/87	
TIME	11:21	12:04	07:10	07:38	08:54	09:19	08:24	08:45	09:54	
UNK651	90651	09								
UNK668	90668	09								

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PROJECT NUMBER: 84936 Q301
FIELD GROUP: 36-3-1
36-3-1PP

		PROJECT NUMBER 84936 0300		PROJECT NAME FMC TASP - PHASE 1	
		FIELD GROUP 36-3-1		PROJECT MANAGER JJA	
		36-3-1EP		LAB CONFIRATOR JOE WONDICH	
PARAMETERS	UNITS	STORED METHOD	DATE TIME	SAMPLE ID	TIME
UNK552	UG/G	34376 36-3-1	07:09:87 09:53	3440A 36-3-1	07:14:87 08:17
UNK558	UG/G	3438A 36-3-1	07:09:87 10:20	3440B 36-3-1	07:14:87 08:42
UNK559	UG/G	51 57	07:09:87 09:53	3441A 36-3-1	07:14:87 09:53
UNK561	UG/G	90561	07:09:87 10:20	3441B 36-3-1	07:14:87 10:10
UNK562	UG/G	90562	07:09:87 07:13	3442A 36-3-1	07:14:87 07:33
UNK563	UG/G	90563	07:09:87 07:27	3442B 36-3-1	07:14:87 07:56
UNK565	UG/G	90565	07:09:87 07:27	3442C 36-3-1	07:14:87 08:12
UNK567	UG/G	90567	07:09:87 07:27	3442D 36-3-1	07:14:87 08:38
UNK569	UG/G	90569	07:09:87 07:27	3442E 36-3-1	07:14:87 08:53
UNK570	UG/G	90570	07:09:87 07:27	3442F 36-3-1	07:14:87 09:17
UNK572	UG/G	90572	07:09:87 07:27	3442G 36-3-1	07:14:87 09:32
UNK574	UG/G	90574	07:09:87 07:27	3442H 36-3-1	07:14:87 09:46
UNK575	UG/G	90575	07:09:87 07:27	3442I 36-3-1	07:14:87 09:56
UNK576	UG/G	90576	07:09:87 07:27	3442J 36-3-1	07:14:87 09:56
UNK578	UG/G	90578	07:09:87 07:27	3442K 36-3-1	07:14:87 09:56
UNK579	UG/G	90579	07:09:87 07:27	3442L 36-3-1	07:14:87 09:56
UNK581	UG/G	90581	07:09:87 07:27	3442M 36-3-1	07:14:87 09:56
UNK583	UG/G	90583	07:09:87 07:27	3442N 36-3-1	07:14:87 09:56
UNK584	UG/G	90584	07:09:87 07:27	3442O 36-3-1	07:14:87 09:56
UNK586	UG/G	90586	07:09:87 07:27	3442P 36-3-1	07:14:87 09:56
UNK587	UG/G	90587	07:09:87 07:27	3442Q 36-3-1	07:14:87 09:56
UNK588	UG/G	90588	07:09:87 07:27	3442R 36-3-1	07:14:87 09:56
UNK591	UG/G	90591	07:09:87 07:27	3442S 36-3-1	07:14:87 09:56

ENVIRONMENTAL SCIENTIFIC & ENGINEERING INC.		PROJECT NUMBER	PROJECT NAME	ITEM	TEST						
PARAMETERS	UNITS	STCET # METHOD	FIELD GROUP	PROJECT MANAGER J.W. LAB COORDINATOR J.C. VONDRICKA							
DATE	TIME	34376 36-3-1 51	34386 36-3-1 57	34395 36-3-1 64	34404 36-3-1 65	34406 36-3-1 71	34416 36-3-1 72	34424 36-3-1 78	34426 36-3-1 85	34434 36-3-1 90	34436 36-3-1 92
90623	UG/C	07:09:87 08:54	07:09:87 09:53	07:09:87 10:20	07:14:87 07:13	07:14:87 07:27	07:14:87 08:17	07:14:87 08:45	07:14:87 09:53	07:15:87 10:10	07:21:87 06:35
UNK624	UG/C	09	90624								
UNK625	UG/C	09	90625								
UNK626	UG/C	09	90626								
UNK627	UG/C	09	90627								
UNK628	UG/C	09	90628								
UNK629	UG/C	09	90629								
UNK630	UG/C	09	90630								
UNK631	UG/C	09	90631								
UNK632	UG/C	09	90632								
UNK633	UG/C	09	90633								
UNK634	UG/C	09	90634								
UNK635	UG/C	09	90635								
UNK636	UG/C	09	90636								
UNK638	UG/C	09	90638								
UNK639	UG/C	09	90639								
UNK641	UG/C	09	90641								
UNK644	UG/C	09	90644								
UNK642	UG/C	09	90642								
UNK646	UG/C	09	90646								
UNK648	UG/C	09	90648								
UNK649	UG/C	09	90649								

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PROJECT NUMBER 84936 0300
FIELD GROUP 36-3-1
36-3-IRPPROJECT NAME PMZ TASK 1 PHASE 1
PROJECT MANAGER J.W.
LAB COORDINATOR J.C. VONDRICKA

PARAMETERS	STORE#	STORET#	3436A	3436B	3439A	3439B	SAMPLE ID#	3441A	3441B	3442A	3442B	3443A	3443B
UNITS	METHOD		36-3-1	36-3-1	36-3-1	36-3-1		36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1
DATE			07/09/87	07 09 87	07 09 87	07 09 87		07 14 87	07 14 87	07 14 87	07 14 87	07 15 87	07 15 87
TIME			08:54	09:53	10:20	07:13		07:27	08:17	08:42	09:52	10:10	07:33
UNK651			90651										
UNK660	UG/G		99										
			90668										
			99										

ENVIRONMENTAL SCIENCE & ENGINEERING				05/09/EE	PROJECT NAME: FMA TASHI - PHASE 1			
PROJECT NUMBER: 64936 0200		FIELD GROUP: 36-3-1		PROJECT MANAGER: JAY		LAB COORDINATOR: JOE VANDOFFIC		
PARAMETERS	UNITS	STOFT #	METHOD	SAMPLE ID #	34456	34455	34461	34476
DATE TIME		36-3-1 09:28	36-3-1 09:57	07/21/87 07/21/87	07/21/87 07/23/87	07/23/87 07/25/87	07/25/87 07/27/87	07/27/87
DBCP (MERMAGON)	UG/G-DRY	98632	<0.100	<0.025	<0.50	<0.025	<0.50	<0.025
BICYCLOHEPTADIENE	U9	98886	<5.08	<5.06	<5.08	<5.08	<5.08	<5.08
METHYLISOBUTYRONE	UG/G-DRY	98896	<5.24	<5.24	<5.24	<5.24	<5.24	<5.24
DICYCLOPENTADIENE	UG/G-DRY	98651	<5.12	<5.12	<5.12	<5.12	<5.12	<5.12
MERCURY	UG/G-DRY	71921	<0.070	<0.070	<0.070	<0.070	<0.070	<0.070
BENZENE	UG/G-DRY	98699	<0.081	2.76	<0.061	<0.081	>4.59	0.139
TOLUENE	UG/G-DRY	98691	<0.096	3.79	<0.096	<0.096	>4.30	0.261
B-22	ETHYLBENZENE	98688	<0.043	1.00	<0.042	<0.042	1.80	<0.043
M-XYLENE	UG/G-DRY	98695	<0.053	1.18	<0.053	<0.053	3.49	<0.053
O-AND/OR P-XYLENE	UG/G-DRY	98700	<0.086	1.14	<0.086	<0.086	4.72	<0.086
METHYLENE CHLORIDE	YY9	98689	<0.15	<0.15	<0.15	<0.15	0.15	<0.15
1,1-DICHLOROETHENE	UG/G-DRY	98789	<0.12	<0.12	<0.12	<0.12	0.21	<0.12
1,1-DICHLOROETHANE	YY9	98883	<0.13	<0.13	<0.13	<0.13	0.13	<0.13
TRANS-1,2-DICHLOROETHENE	UG/G-DRY	98887	<0.15	<0.15	<0.15	<0.15	0.15	<0.15
CHLOROFORM	UG/G-DRY	98882	<0.10	>1.04	<0.10	0.22	>1.04	>1.04
1,2-DICHLOROETHANE	YY9	98684	<0.08	<0.08	<0.08	<0.08	0.45	<0.08
1,1,1-TRICHLOROETHANE	UG/G-DRY	98692	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12
CARBON TETRACHLORIDE	YY9	98680	<0.12	>1.03	<0.12	<0.12	>1.02	<0.12
TRICHLOROETHENE	YY9	98694	<0.09	<0.09	<0.09	<0.09	>1.00	<0.45
1,1,2-TRICHLOROETHANE	UG/G-DRY	98693	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12
TETRACHLOROETHENE	YY9	98650	<0.12	>1.01	<0.83	>1.01	>1.01	<0.12
CHLOROBENZENE	UG/G-DRY	98681	<0.10	>1.02	<0.10	<0.10	<0.10	<0.10
MERCURY, SED	UG/G-DRY	71921	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16

ENVIRONMENTAL SCIENCE & ENGINEERING			05-09-EE	PROJECT NAME	EWL TEST - PHASE 1						
PROJECT NUMBER 84936 0301 FIELD GROUP 36-3-1			36-3-1RP	PROJECT MANAGER JJA LAB COORDINATOR JEF VANDERK							
PARAMETERS	STOKE #	UNITS	DATE	TIME	SAMPLE #	3445C	3445A	3446A	3447A	3447B	3447C
ALDRIN	96356	UG/G-DRY	07/21/87	09:26	3444A	3444C	3444A	3445B	3445C	3445A	3445C
ATRAZINE	98655	UG/G-DRY	09	09:57	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1
CHLORDANE	98361	UG/G-DRY	09	10:01	100	103	106	107	108	110	111
P-CHLORINYL METHYL-SULFIDE	98653	UG/G-DRY	09	10:23	07 21 87	07 21 87	07 23 87	07 23 87	07 23 87	07 23 87	07 23 87
P-CHLORINYL METHYL-SULFOXIDE	98654	UG/G-DRY	09	09:36	06:51	06:51	07:32	07:32	07:44	07:44	07:44
P-CHLORINYL METHYL-SULFONE	98703	UG/G-DRY	09	09:57	09:57	09:57	09:57	09:57	09:57	09:57	09:57
DCEP (NEMAGON)	98652	UG/G-DRY	09	10:23	07 21 87	07 21 87	07 23 87	07 23 87	07 23 87	07 23 87	07 23 87
B-DICYCLOPENTADIENE	98651	UG/G-DRY	09	10:23	07 21 87	07 21 87	07 23 87	07 23 87	07 23 87	07 23 87	07 23 87
DDE, PP,	98363	UG/G-DRY	09	10:23	07 21 87	07 21 87	07 23 87	07 23 87	07 23 87	07 23 87	07 23 87
DDT, PP,	98364	UG/G-DRY	09	10:23	07 21 87	07 21 87	07 23 87	07 23 87	07 23 87	07 23 87	07 23 87
DIELOPIN	98365	UG/G-DRY	09	10:23	07 21 87	07 21 87	07 23 87	07 23 87	07 23 87	07 23 87	07 23 87
DIMP	98645	UG/G-DRY	09	10:23	07 21 87	07 21 87	07 23 87	07 23 87	07 23 87	07 23 87	07 23 87
1,4 DITHIANE	98650	UG/G-DRY	09	10:23	07 21 87	07 21 87	07 23 87	07 23 87	07 23 87	07 23 87	07 23 87
DMPMP	98657	UG/G-DRY	09	10:23	07 21 87	07 21 87	07 23 87	07 23 87	07 23 87	07 23 87	07 23 87
ENDRIN	98369	UG/G-DRY	09	10:23	07 21 87	07 21 87	07 23 87	07 23 87	07 23 87	07 23 87	07 23 87
HEXAHALOOCYCLOPENTADIENE	98667	UG/G-DRY	09	10:23	07 21 87	07 21 87	07 23 87	07 23 87	07 23 87	07 23 87	07 23 87
ISODRIN	98649	UG/G-DRY	09	10:23	07 21 87	07 21 87	07 23 87	07 23 87	07 23 87	07 23 87	07 23 87
MALATHION	98668	UG/G-DRY	09	10:23	07 21 87	07 21 87	07 23 87	07 23 87	07 23 87	07 23 87	07 23 87
1,4 OXATHIANE	98644	UG/G-DRY	09	10:23	07 21 87	07 21 87	07 23 87	07 23 87	07 23 87	07 23 87	07 23 87
SUPONA	98656	UG/G-DRY	09	10:23	07 21 87	07 21 87	07 23 87	07 23 87	07 23 87	07 23 87	07 23 87
VAPONA	98646	UG/G-DRY	09	10:23	07 21 87	07 21 87	07 23 87	07 23 87	07 23 87	07 23 87	07 23 87
DICYCLOPENTADIENE	98651	UG/G-DRY	09	10:23	07 21 87	07 21 87	07 23 87	07 23 87	07 23 87	07 23 87	07 23 87

לענין הצעת צדקה במשפטם של מושביהם

THE PRACTICAL USE OF THE TELEGRAM IN BUSINESS 12

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PARAMETERS		PROJECT NUMBER 84936 0:00 FIELD GROUP 36-3-1 36-3-TRP		PROJECT NAME PMW TASK 1 PHASE 1 PF. PROJECT MANAGER J.J. LAE COORDINATOR JOE VONDRICK	
UNITS	STC#	3444A 36-3-1 99	3444B 36-3-1 100	3444C 36-3-1 101	3444D 36-3-1 102
DATE	07/21/07	07/21/07 09:26	07/21/07 09:57	07/21/07 10:22	07/21/07 09:36
TIME	09:26	09:57	10:22	09:36	06:51
UNK 623	90623				
UNK 624	UC/G	39	91624		
UNK 625	UC/G	39	90625		
UNK 626	UC/G	39	90626		
UNK 627	UC/G	39	90627		
UNK 628	UC/G	39	90628		
B-29		90629	90629		
UNK 630	UC/G	39	90630		
UNK 631	UC/G	39	90631		
UNK 632	UC/G	39	90632		
UNK 633	UC/G	39	90633		
UNK 634	UC/G	39	90634		
UNK 635	UC/G	39	90635		
UNK 636	UC/G	39	90636		
UNK 638	UC/G	39	90638		
UNK 639	UC/G	39	90639		
UNK 641	UC/G	39	90641		
UNK 642	UC/G	39	90642		
UNK 643	UC/G	39	90643		
UNK 644	UC/G	39	90644		
UNK 645	UC/G	39	90645		
UNK 646	UC/G	39	90646		
UNK 648	UC/G	39	90648		
UNK 649	UC/G	39	90649		

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PROJECT NUMBER 84936 0200
FIELD CHT-UP 36-3-1

PROJECT NAME: FBL TEST | DATE: 11/01/2014
PROJECT MANAGER: J.J.V.
LAB COORDINATOR: J.C. VANDENBURG

ENVIRONMENTAL SCIENCE & ENGINEERING

PROJECT NUMBER		84936-0501		PROJECT NAME		FIRE TEST - PART 1	
FIELD GROUP		36-3-1		PROJECT MANAGER		J.W.	
METHOD		36-3-1RP		LAB		CQFD/NATL. Lab. VANDEN	
PARAMETERS	UNIT	STOKE #	DATE	TIME	SAMPLE #	TEST	RESULT
UNITS	METHOD	STOKE #	DATE	TIME	STOKE #	TEST	RESULT
DECP/MAGNOM)	UG/G-DRY	3448A	07/26/87	07:26:07	3449	3451	3452
BIS(2-CYCLOPENTADIENE) UG/G-DRY	U9	<0.005	<0.005	06:57	07:28:07	07:26:07	<0.005
METHYLISOBUTYLKETONE UG/G-DRY	279	<5.08	<5.08	07:25	08:35	09:02	<0.005
DICYCLOPENTADIENE UG/G-DRY	229	<5.24	<5.24	07:26	08:35	09:30	<0.005
MERCURY UG/G-DRY	E9	<0.294	<0.294	07:26	08:35	09:30	<0.005
BENZENE UG/G-DRY	W9	<0.081	<0.081	07:26	08:35	09:30	<0.005
TOLUENE UG/G-DRY	W9	<0.096	<0.096	07:26	08:35	09:30	<0.005
ETHYLBENZENE UG/G-DRY	W9	<0.043	<0.043	07:26	08:35	09:30	<0.005
M-XYLENE UG/G-DRY	YY9	<0.052	<0.052	07:26	08:35	09:30	<0.005
O-AND/P-XYLENE UG/G-DRY	W9	<0.086	<0.086	07:26	08:35	09:30	<0.005
METHYLENE CHLORIDE UG/G-DRY	W9	<0.15	<0.15	07:26	08:35	09:30	<0.005
1,1-DICHLOROETHENE UG/G-DRY	YY9	<0.12	<0.12	07:26	08:35	09:30	<0.005
1,1-DICHLOROETHANE UG/G-DRY	YY9	<0.13	<0.13	07:26	08:35	09:30	<0.005
TRANS-1,2-DICHLOROET HENE UG/G-DRY	YY9	<0.15	<0.15	07:26	08:35	09:30	<0.005
CHLOROFORM UG/G-DRY	YY9	<0.10	<0.10	07:26	08:35	09:30	<0.005
1,2-DICHLOROETHANE UG/G-DRY	YY9	<0.08	<0.08	07:26	08:35	09:30	<0.005
1,1,1-TRICHLORO- ETHANE UG/G-DRY	YY9	<0.12	<0.12	07:26	08:35	09:30	<0.005
CARBON TETRACHLORIDE UG/G-DRY	YY9	<0.12	<0.12	07:26	08:35	09:30	<0.005
TRICHLOROETHENE UG/G-DRY	YY9	<0.09	<0.09	07:26	08:35	09:30	<0.005
1,1,2-TRICHLORO- ETHANE UG/G-DRY	YY9	<0.12	<0.12	07:26	08:35	09:30	<0.005
TETRACHLOROETHENE UG/G-DRY	YY9	<0.12	<0.12	07:26	08:35	09:30	<0.005
CHLOROBENZENE UG/G-DRY	YY9	<0.18	<0.18	07:26	08:35	09:30	<0.005
MERCUR. SED	YY9	<0.121	<0.121	07:26	08:35	09:30	<0.005

PROJECT NUMBER			PROJECT NAME			DATE			TIME			SAMPLE ID #			WATER		
64936 C3-0			PROJECT MANAGER			PHASE 1			07-28-87			34496			34500		
FIELD GROUP			LAB COORDINATOR			TEST			01:18			34498			34501		
PARAMETERS	UNITS	STOKE #	METHOD	UNITS	STOKE #	DATE	TIME	TIME	DATE	TIME	TIME	SAMPLE ID #	IC #	IC #	SAMPLE ID #	IC #	IC #
TRANS-1,2-DICHLOROETHENE	UG/G-DRY	98687	34488	36-3-1	34488	07-28-87	01:18	07:25	07-28-87	07:25	07:25	34496	34498	34499	34501	34502	34504
HEXENE	UG/G-DRY	W9	36-3-1	127	126	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1
ETHILEBENZENE	UG/G-DRY	98688	36-3-1	127	126	36-3-1	134	135	36-3-1	135	135	36-3-1	141	145	146	146	146
METHYLENE CHLORIDE	UG/G-DRY	98689	36-3-1	127	126	36-3-1	134	135	36-3-1	135	135	36-3-1	141	145	146	146	146
TETRACHLOROETHENE	UG/G-DRY	98690	36-3-1	127	126	36-3-1	134	135	36-3-1	135	135	36-3-1	141	145	146	146	146
TOLUENE	UG/G-DRY	98691	36-3-1	127	126	36-3-1	134	135	36-3-1	135	135	36-3-1	141	145	146	146	146
1,1,1-TRICHLORO-	UG/G-DRY	98692	36-3-1	127	126	36-3-1	134	135	36-3-1	135	135	36-3-1	141	145	146	146	146
ETHANE	UG/G-DRY	98693	36-3-1	127	126	36-3-1	134	135	36-3-1	135	135	36-3-1	141	145	146	146	146
1,1,2-TRICHLORO-	UG/G-DRY	98694	36-3-1	127	126	36-3-1	134	135	36-3-1	135	135	36-3-1	141	145	146	146	146
B-ETHANE	UG/G-DRY	98695	36-3-1	127	126	36-3-1	134	135	36-3-1	135	135	36-3-1	141	145	146	146	146
1,1,1-TRICHLOROETHENE	UG/G-DRY	98696	36-3-1	127	126	36-3-1	134	135	36-3-1	135	135	36-3-1	141	145	146	146	146
M-YLENE	UG/G-DRY	98697	36-3-1	127	126	36-3-1	134	135	36-3-1	135	135	36-3-1	141	145	146	146	146
MIBK	UG/G-DRY	98698	36-3-1	127	126	36-3-1	134	135	36-3-1	135	135	36-3-1	141	145	146	146	146
DMSO	UG/G-DRY	98699	36-3-1	127	126	36-3-1	134	135	36-3-1	135	135	36-3-1	141	145	146	146	146
BENZENE	UG/G-DRY	98700	36-3-1	127	126	36-3-1	134	135	36-3-1	135	135	36-3-1	141	145	146	146	146
O-AND/OR P-YLINE	UG/G-DRY	98701	36-3-1	127	126	36-3-1	134	135	36-3-1	135	135	36-3-1	141	145	146	146	146
CARBON TETRACHLORIDE	UG/G-DRY	98702	36-3-1	127	126	36-3-1	134	135	36-3-1	135	135	36-3-1	141	145	146	146	146
CHLOROBENZENE	UG/G-DRY	98703	36-3-1	127	126	36-3-1	134	135	36-3-1	135	135	36-3-1	141	145	146	146	146
CHLOROFORM	UG/G-DRY	98704	36-3-1	127	126	36-3-1	134	135	36-3-1	135	135	36-3-1	141	145	146	146	146
1,1-DICHLOROETHANE	UG/G-DRY	98705	36-3-1	127	126	36-3-1	134	135	36-3-1	135	135	36-3-1	141	145	146	146	146
1,2-DICHLOROETHANE	UG/G-DRY	98706	36-3-1	127	126	36-3-1	134	135	36-3-1	135	135	36-3-1	141	145	146	146	146
EICYCLOHEPTADIENE	UG/G-DRY	98707	36-3-1	127	126	36-3-1	134	135	36-3-1	135	135	36-3-1	141	145	146	146	146
DBCP(MERAGON)	UG/G-DRY	98708	36-3-1	127	126	36-3-1	134	135	36-3-1	135	135	36-3-1	141	145	146	146	146
THIODIGLYCOL	UG/G-DRY	98709	36-3-1	127	126	36-3-1	134	135	36-3-1	135	135	36-3-1	141	145	146	146	146
CHLOROACETIC ACID	UG/G	98710	36-3-1	127	126	36-3-1	134	135	36-3-1	135	135	36-3-1	141	145	146	146	146
IMPA	UG/G	98711	36-3-1	127	126	36-3-1	134	135	36-3-1	135	135	36-3-1	141	145	146	146	146

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ENVIRONMENTAL SCIENCE & ENGINEERING

PROJECT NUMBER		PROJECT NAME		FMS T/S		PHASE	
FIELD GROUP		PROJECT MANAGER J.W.		LAS COORDINATOR J.W. JUNIPER			
36-3-1		36-3-1		36-3-1			
36-3-1AP		36-3-1AP		36-3-1AP			
PARAMETERS	STORY 4	3448A	3448B	3449E	3449I	34514	34521
	METHOD	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1
UNITS	127	128	131	134	135	136	137
DATE	07.26.87	07.26.87	07.26.87	07.26.87	07.26.87	07.26.87	07.26.87
TIME	06:57	07:18	07:25	06:35	09:02	09:30	07:21
LINK 153	90153						
UNK 156	UG/C	W9	90156	UG/C	W9	90156	UG/C
UNK 157	UG/C	W9	90157	UG/C	W9	90157	UG/C
UNK 158	UG/C	W9	90158	UG/C	W9	90158	UG/C
UNK 159	UG/C	W9	90159	UG/C	W9	90159	UG/C
UNK 162	UG/C	W9	90162	UG/C	W9	90162	UG/C
UNK 163	UG/C	W9	90163	UG/C	W9	90163	UG/C
B-UNK 175	UG/C	W9	90175	UG/C	W9	90175	UG/C
UNK 178	UG/C	W9	90178	UG/C	W9	90178	UG/C
UNK 179	UG/C	W9	90179	UG/C	W9	90179	UG/C
UNK 180	UG/C	W9	90180	UG/C	W9	90180	UG/C
UNK 193	UG/C	W9	90193	UG/C	W9	90193	UG/C
UNK514	UG/C	Q9	90514	UG/C	Q9	90514	UG/C
UNK519	UG/C	Q9	90519	UG/C	Q9	90519	UG/C
UNK525	UG/C	Q9	90525	UG/C	Q9	90525	UG/C
UNK526	UG/C	Q9	90526	UG/C	Q9	90526	UG/C
UNK529	UG/C	Q9	90529	UG/C	Q9	90529	UG/C
UNK541	UG/C	Q9	90541	UG/C	Q9	90541	UG/C
UNK543	UG/C	Q9	90543	UG/C	Q9	90543	UG/C
UNK548	UG/C	Q9	90548	UG/C	Q9	90548	UG/C
UNK549	UG/C	Q9	90549	UG/C	Q9	90549	UG/C
UNK551	UG/C	Q9	90551	UG/C	Q9	90551	UG/C

ENVIRONMENTAL SCIENCE & ENGINEERING		05-09-08	PROJECT NAME	EMC TASK : PHASE 1	PLATE #
PROJECT NUMBER 84936 0300			PROJECT PARTNER	LAB COORDINATOR, QC, AND/OR (QA)	
FIELD GROUP 36-3-1					
36-3-1PP					
PARAMETERS	STOKE #	3448A	3448Y	3449X	3449Y
	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1
UNITS	METHOD	127	128	131	134
DATE		07/28/08	07/28/08	07/28/08	07/28/08
TIME		06:57	07:16	07:25	08:35
		09:02	09:02	09:30	10:55
		10:01	10:01	10:15	11:15
UNK592	UG_G	09	09	09	09
UNK594	UG_G	09	09	09	09
UNK595	UG_G	09	09	09	09
UNK596	UG_G	09	09	09	09
UNK597	UG_G	09	09	09	09
UNK598	UG_G	09	09	09	09
UNK601	UG_G	09	09	09	09
UNK603	UG_G	09	09	09	09
UNK605	UG_G	09	09	09	09
UNK607	UG_G	09	09	09	09
B 38	UNK608	UG_G	09	09	09
	UNK609	UG_G	09	09	09
	UNK611	UG_G	09	09	09
	UNK612	UG_G	09	09	09
	UNK613	UG_G	09	09	09
	UNK614	UG_G	09	09	09
	UNK615	UG_G	09	09	09
	UNK616	UG_G	09	09	09
	UNK617	UG_G	09	09	09
	UNK618	UG_G	09	09	09
	UNK619	UG_G	09	09	09
	UNK621	UG_G	09	09	09
	UNK622	UG_G	09	09	09

ENVIRONMENTAL SCIENCE & ENGINEERING

		PROJECT NUMBER	84936-0200	PROJECT NAME	FML TEST	PILOT TEST
FIELD GROUP		36-3-1 36-3-1PP	PROJECT MANAGER: JIM LAB COORDINATOR: JEFF LINDFORS			
PARAMETERS		STOKE #	IC #	SAMPLE IC #	IC #	IC #
UNITS	METHOD	3646A 36-3-1 127	34486 36-3-1 128	34494 36-3-1 131	34490 36-3-1 134	34500 36-3-1 135
DATE	07/28/87	07/28/87	07/28/87	07/28/87	07/28/87	07/28/87
TIME	06:57	07:18	07:25	07:35	09:02	09:20
UNK623	UG/C	Q9				
UNK624	UG/C	Q9				
UNK625	UG/C	Q9				
UNK626	UG/C	Q9				
UNK627	UG/C	Q9				
UNK628	UG/C	Q9				
UNK629	UG/C	Q9				
UNK630	UG/C	Q9				
UNK631	UG/C	Q9				
UNK632	UG/C	Q9				
D-39 UNK633	UG/C	Q9				
UNK634	UG/C	Q9				
UNK635	UG/C	Q9				
UNK636	UG/C	Q9				
UNK638	UG/C	Q9				
UNK639	UG/C	Q9				
UNK641	UG/C	Q9				
UNK642	UG/C	Q9				
UNK643	UG/C	Q9				
UNK644	UG/C	Q9				
UNK645	UG/C	Q9				
UNK646	UG/C	Q9				
UNK648	UG/C	Q9				
UNK649	UG/C	Q9				

ENVIRONMENTAL SCIENCE & ENGINEERING INC								REF ID: 198F
PROJECT NUMBER 84936-0000 FIELD GROUP 36-3-1 36-3-1PP				PROJECT NAME PM TASK 1 PHASE 1 PROJECT MANAGER J.S. LAB COORDINATOR JEFF VONDERHOFF				
PARAMETERS	STORFET #	3453X	3454A	3454C	3456A	3456L	3457L	3457L
UNITS	METHOD	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1
DATE	07/29/87	08:02:07	08:03:07	08:02:07	08:04:07	08:04:07	08:05:07	08:05:07
TIME	09:45	07:12	07:30	08:10	07:06	07:38	07:14	07:40
ALDRIN	UG/G-DRY	9E356			<0.94	240	240	<0.94
ATRAZINE	UG/G-DRY	9E655			<0.73	27.3	27.3	<0.73
CHLORDANE	UG/G-DRY	9E361			<1.5	15	15	<1.5
P-CLPHENYL METHYL SULFIDE	UG/G-DRY	9E653			<0.25	2.5	2.5	<0.25
P-CLPHENYL METHYL SULFOXIDE	UG/G-DRY	9E654			<0.35	3.5	3.5	<0.35
P-CLPHENYL METHYL SULFONE	UG/G-DRY	9E703			<0.29	2.9	2.9	<0.29
DBCP (NINACON)	UG/G-DRY	9E852			<0.33	3.8	3.8	<0.33
DICYCLOPENTADIENE	UG/G-DRY	9E851			<0.26	26.0	26.0	<0.26
DODGE, PP,	UG/G-DRY	9E863			<0.29	2.9	2.9	<0.29
DDT, PP,	UG/G-DRY	9E864			<0.37	3.7	3.7	<0.37
DIELDRIN	UG/G-DRY	9E865			<0.25	1.1	1.0	<0.25
DIMP	UG/G-DRY	9E845			<0.50	5.0	5.0	<0.50
1,4 DITHIANE	UG/G-DRY	9E860			<0.25	2.5	2.5	<0.25
DMP	UG/G-DRY	9E857			<1.5	15	15	<1.5
ENDRIN	UG/G-DRY	9E869			0.75	1.2	4.0	<0.70
HEXYCHLOROCYCLOPENTADIENE	UG/G-DRY	9E847			<1.1	1.1	1.1	<1.1
ISODRIN	UG/G-DRY	9E849			<0.33	0.33	120.0	<0.33
HALATHION	UG/G-DRY	9E864			<0.59	5.9	5.9	<0.59
1,4 OXATHIANE	UG/G-DRY	9E858			<0.62	6.2	6.2	<0.62
ETY-PARATHION	UG/G-DF	9E856			<0.49	4.9	4.9	<0.49
VAPONA	UG/G-DRY	9E846			<0.25	2.5	2.5	<0.25
DICYCLOPENTADIENE	UG/G-DR	9E851			1.6	2.2	27.0	<0.31

PARAMETERS	UNITS	STOKE #	DATE	TIME	3453A	3454B	3456C	3458D	3457E	3458F	3459G	3457H	3458I	3459J	3458K	3459L	3458M	3459N
METHOD	166	98688	07/29/87	08:03:87	08:03:87	08:04:87	08:04:87	08:04:87	08:04:87	08:05:87	08:05:87	08:05:87	08:05:87	08:05:87	08:05:87	08:05:87	08:05:87	08:05:87
HENE UG/G-DRY	W9	98687	09:45	07:12	05:30	08:10	07:06	07:35	06:11	09:59	07:14	02:12	07:40	08:24	07:02	07:27	07:54	07:54
ETHILBENZENE UG/G-DRY	W9	98688							<0.30	<0.30	<0.30	<0.20	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
METHYLENE CHLO DE UG/G-DRY	W9	98689							<0.30	<0.30	<0.30	<0.76	0.67	<0.20	<0.30	<0.30	<0.30	<0.30
TETRACHLOROETHENE UG/G-DRY	W9	98690							<0.30	<0.30	<0.30	2.1	4.3	<0.30	1.3			
TOLUENE UG/G-DRY	W9	98691							<0.30	0.72		4.0	>2E0	<0.20	23			
1,1,1-TRICHLORO- ETHANE UG/G-DRY	W9	98692							<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
1,1,2-TRICHLORO- ETHANE UG/G-DRY	W9	98693							<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
1,2-TRICHLOROETHENE UG/G-DRY	W9	98694							<0.30	<0.30	<0.30	2.9	0.82	<0.20	<0.20	<0.20	<0.20	<0.20
M-XYLENE UG/G-DRY	W9	98695							<0.30	<0.30	<0.30	1.2	2.1	<0.20	1.3			
MIBK UG/G-DRY	W9	98696							<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
DMSO UG/G-DRY	W9	98697							<0.30	<0.30	<0.30	<0.30	0.65	<0.30	<0.30	<0.30	<0.30	<0.30
BENZENE UG/G-DRY	W9	98699							<0.30	<0.30	<0.30	<0.30	27	<0.30	2.0			
O-ANIS DR P-XYLENE UG/G-DRY	W9	98700							<0.50	<0.50		1.1	<0.50	<0.50	1.9			
CHLORFORM UG/G-DRY	W9	98680							<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
CARBON TETRACHLORIDE UG/G-DRY	W9	98681							<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
CHLOROBENZENE UG/G-DRY	W9	98682							<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
1,1-DICHLOROETHANE UG/G-DRY	W9	98683							<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
1,2-DICHLOROETHANE UG/G-DRY	W9	98684							<0.30	<0.30	<0.30	5.5	7.9	<0.30	1.1			
BICYCLOHEPTADIENE UG/G-DRY	W9	98686							<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
DBCP (NEWAGON) UG/G-DRY	W9	98652							<0.30	<0.30		1.1	2.4					225
THIODIGLYCOL UG/G-DRY	W9	99798							<2.55	<2.55		<2.55	<2.55					
CHLOROACETIC ACID UG/G	MM9	97285							<18.0	<18.0		<18.0	<18.0					
IMPA UG/G	MM9	97382							<2.10	<2.10		<2.10	<2.10					

ENVIRONMENTAL SCIENCE & ENGINEERING				REF ID: E5	PLACE #
PROJECT NUMBER		NAME		CHG TASK #	PLACE #
FIELD EQUIP		PROJECT MANAGER		LIT CREDITS	
36-3-1PP		LIT CREDITS		JOE VONDERKIRCH	
PARAMETERS	UNITS	SAMPLE ID #	REF ID	CHG	PLACE #
STOKE #	36-3-1	34544	3454C	3456	34561
METHOD	166	169	36-3-1	36-3-1	36-3-1
DATE	07-29-87	08 02 87	08 03 87	08 04 87	08 05 87
TIME	09:45	07:12	07:20	08:10	08:11
FLUORACETIC ACID	UG /G	<2.00	19.1	<2.00	<2.00
MPA	UG /G	<2.00	<2.00	<2.00	<2.00
UNK.007	UG /G	9000			
UNN.034	UG /G	90034			
UNN.029	UG /G	90029			
UNN.047	UG /G	9004-			
UNN.058	UG /G	9005E			
B-45	UG /G	90075			
UNN.086	UG /G	9008E			
UNN.095	UG /G	9009S			
UNK.102	UG /G	90102			
UNK.108	UG /G	90108			
UNK.111	UG /G	90111			
UNK.112	UG /G	90112			
UNK.114	UG /G	90114			
UNK.116	UG /G	90116			
UNK.121	UG /G	90121			
UNK.124	UG /G	90124			
UNK.141	UG /G	90141			
UNK.143	UG /G	90143			
UNK.144	UG /G	90144			
UNK.146	UG /G	90146			
UNK.147	UG /G	90147			

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ENVIRONMENTAL SCIENCE & ENGINEERING

Page 44

PROJECT NUMBER 84926-D/C
FIELD GROUP 36-3-1
36-3-1EP

PROJECT NAME

EMI T11, Project

PROJECT MANAGER J.A.

LAB COORDINATOR J.M. VANCE

PARAMETERS	STOFT #	3453X	3454A	3454B	3454C	3456A	3456B	3456C	SAMPLE ID #
UNITS	METHOD	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	3457
DATE		07/29/87	08/03/87	08/03/87	08/03/87	08/04/87	08/04/87	08/04/87	3458
TIME		09:45	07:12	07:30	07:30	07:38	07:38	07:38	3459

UNK153 90153 W9

UNK156 90156 W9

UNK157 90157 W9

UNK158 90158 W9

UNK159 90159 W9

UNK162 90162 W9

UNK163 90163 W9

UNK175 90175 W9

UNK178 90178 W9

UNK179 90179 W9

UNK180 90180 W9

UNK193 90193 W9

UNK514 90514 W9

UNK519 90519 W9

UNK525 90525 W9

UNK543 90543 W9

UNK545 90545 W9

UNK544 90544 W9

UNK548 90548 W9

UNK549 90549 W9

UNK551 90551 W9

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ENVIRONMENTAL SCIENCE & ENGINEERING **FIG. 8:**
PROJECT NUMBER 84936 0300
FIELD GROUP 36-3-1
36-3-1P

INSTITUTE OF APPLIED SCIENCE & ENGINEERING										(S) SAMPLE														
PROJECT NUMBER 84936 0300					PROJECT NAME I.P. 121					PROJECT MANAGER J.J.					LAB COORDINATOR J.C. MINTON									
FIELD GROUP		36-3-1			FIELD GROUP		36-3-1			FIELD GROUP		36-3-1			FIELD GROUP		36-3-1			FIELD GROUP		36-3-1		
26-3-1RP					170		171			180		181			182		183			184		185		
PARAMETERS	STOKE#	34531	34544	34546	34560	34566	34568	34572	34574	34576	34578	34580	34582	34584	34586	34588	34590	34592	34594	34596	34598	34599		
UNITS	METHOD	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1	36-3-1		
TIME		07:29:87	08:03:87	08:03:87	08:03:87	08:03:87	08:04:87	08:04:87	08:04:87	08:04:87	08:04:87	08:04:87	08:04:87	08:04:87	08:04:87	08:04:87	08:04:87	08:04:87	08:04:87	08:04:87	08:04:87			
UNK623	UG/C	09:45	07:12	07:36	08:13	07:06	07:06	07:06	07:06	07:06	07:06	07:06	07:06	07:06	07:06	07:06	07:06	07:06	07:06	07:06	07:06			
UNK624	UG/G	90624	90624	90624	90624	90625	90625	90625	90626	90626	90627	90627	90628	90628	90629	90629	90630	90630	90631	90631	90632	90632		
UNK625	UG/G	90625	90625	90625	90625	90626	90626	90626	90627	90627	90628	90628	90629	90629	90630	90630	90631	90631	90632	90632	90633	90633		
UNK626	UG/C	90626	90626	90626	90626	90627	90627	90627	90628	90628	90629	90629	90630	90630	90631	90631	90632	90632	90633	90633	90634	90634		
UNK627	UG/C	90627	90627	90627	90627	90628	90628	90628	90629	90629	90630	90630	90631	90631	90632	90632	90633	90633	90634	90634	90635	90635		
UNK628	UG/C	90628	90628	90628	90628	90629	90629	90629	90630	90630	90631	90631	90632	90632	90633	90633	90634	90634	90635	90635	90636	90636		
UNK629	UG/C	90629	90629	90629	90629	90630	90630	90630	90631	90631	90632	90632	90633	90633	90634	90634	90635	90635	90636	90636	90637	90637		
UNK630	UG/G	90630	90630	90630	90630	90631	90631	90631	90632	90632	90633	90633	90634	90634	90635	90635	90636	90636	90637	90637	90638	90638		
UNK631	UG/G	90631	90631	90631	90631	90632	90632	90632	90633	90633	90634	90634	90635	90635	90636	90636	90637	90637	90638	90638	90639	90639		
UNK632	UG/C	90632	90632	90632	90632	90633	90633	90633	90634	90634	90635	90635	90636	90636	90637	90637	90638	90638	90639	90639	90640	90640		
UNK633	UG/C	90633	90633	90633	90633	90634	90634	90634	90635	90635	90636	90636	90637	90637	90638	90638	90639	90639	90640	90640	90641	90641		
UNK634	UG/G	90634	90634	90634	90634	90635	90635	90635	90636	90636	90637	90637	90638	90638	90639	90639	90640	90640	90641	90641	90642	90642		
UNK635	UG/G	90635	90635	90635	90635	90636	90636	90636	90637	90637	90638	90638	90639	90639	90640	90640	90641	90641	90642	90642	90643	90643		
UNK636	UG/C	90636	90636	90636	90636	90637	90637	90637	90638	90638	90639	90639	90640	90640	90641	90641	90642	90642	90643	90643	90644	90644		
UNK637	UG/C	90637	90637	90637	90637	90638	90638	90638	90639	90639	90640	90640	90641	90641	90642	90642	90643	90643	90644	90644	90645	90645		
UNK638	UG/G	90638	90638	90638	90638	90639	90639	90639	90640	90640	90641	90641	90642	90642	90643	90643	90644	90644	90645	90645	90646	90646		
UNK639	UG/C	90639	90639	90639	90639	90640	90640	90640	90641	90641	90642	90642	90643	90643	90644	90644	90645	90645	90646	90646	90647	90647		
UNK640	UG/C	90640	90640	90640	90640	90641	90641	90641	90642	90642	90643	90643	90644	90644	90645	90645	90646	90646	90647	90647	90648	90648		
UNK641	UG/G	90641	90641	90641	90641	90642	90642	90642	90643	90643	90644	90644	90645	90645	90646	90646	90647	90647	90648	90648	90649	90649		

PROJECT NUMBER		FIELD GROUP		TEST NUMBER		TEST NUMBER		TEST NUMBER		TEST NUMBER	
6493E 010		36-3-1		36-3-1P		36-3-1P		36-3-1P		36-3-1P	
STREET #		METHOD		UNITS		PARAMETERS		DATE		TIME	
3453D	3454A	3454B	3454C	3456	3456	08 03 87	08 03 87	08 04 87	08 04 87	08 04 87	08 04 87
36-3-1	26-1-1	26-3-1	26-2-1	1-1	1-1	07-12	07-10	07-06	07-06	07-06	07-06
166	169	171	171	176	176	11:45	11:45	11:45	11:45	11:45	11:45
11:25 E	11:25 E	11:25 E	11:25 E	11:25 E	11:25 E	11:45	11:45	11:45	11:45	11:45	11:45

90651	กานดาเรีย	๖๖๙
๙๐๖๕๑	กานดาเรีย	๖๖๙

ENVIRONMENTAL SCIENCE & ENGINEERING

PROJECT

PROJECT NUMBER 84936 G310
 FIELD GROUP 36-3-1
 36-3-1PP

PROJECT MANAGER J. A.
 LAF CONFIDENTIAL J.F. VONNEUF

SAMPLE ID #

PARAMETERS	UNITS	STATION #	METHOD	PROJECT NAME	POLY TYPE	PERCENT
DATE						
TIME						
SAMPLE TYPE		71999	SC			
SITE TYPE	1	99759	BORE			
SAMPLE DEPTH	f7	0				
SAMPLING TECHNIQUE		99720	S			
INSTALLATION CODE		99720	PK			
MOISTURE SAMPLE		0				
MOISTURE %WET WT		10320	18.9			
1,4-DIENE	UG/G-DRY	98647	<0.003			
ALDRIN,SED.	UG/G-DRY	SS9A				
ISODRIN	UG/G-DRY	98356	<0.182			
DDE,PP'	UG/G-DRY	98363	<0.001			
DIELDRIN	UG/G-DRY	98365	<0.121			
ENDRIN	UG/G-DRY	98369	0.534			
DDT,PP'	UG/G-DRY	98364	<0.002			
CHLORDANE,SED	UG/G-DRY	SS9A				
DIMP	UG/G-DRY	98645	NA			
DMHP	UG/G-DRY	98657	NA			
DMDS	UG/G-DRY	98697	<0.692			
1,4 OXATHIANE	UG/G-DRY	98644	<0.856			
1,4 DITHIANE	UG/G-DRY	U09				
P-CL PHENYL METHY-	UG/G-DRY	U09	<0.571			
SULFIDE	UG/G-DRY	98653	<1.08			
BENZOTHAZOLE	UG/G-DRY	97302	<1.08			
P-CL PHENYL METHY-	UG/G-DRY	U09				
SULFOXIDE	UG/G-DRY	98654	<2.25			
P-CL PHENYL METHY-	UG/G-DRY	U09				
SULFONE	UG/G-DRY	98703	<2.37			
		U09				

ENVIRONMENTAL SCIENCE & ENGINEERING

05/10/86

PROJECT NUMBER Project 0501
 FIELD GFCJ.P 36-3-1
 36-3-1BP
 L&E CORP INTRAC JET CONFIDENTIAL

SAMPLE ID #

PARAMETERS	STOKE #	DATE	TIME	METHOD	UNITS	TIME
	34582	36-3-1				08 06 87 08:49
DSCP (NEWAGON)	98652			UG/G-DRY	Ug	15.5
BIS(CYCLOHEXADIENE	98686			UG/G-DRY	Ug	<5.0E
METHYL ISOBUTYLKETONE	98896			UG/G-DRY	Ug	<5.24
DI-CYCLOPENTADIENE	98851			UG/G-DRY	Ug	<5.12
MERCURY	71921			UG/G-DRY	Ug	<2.9
BENZENE	98699			UG/G-DRY	Eg	<0.162
TOLUENE	98691			UG/G-DRY	Ww9	4.99
B-ETHYLBENZENE	98688			UG/G-DRY	Ww9	<0.086
52 M-XYLENE	98695			UG/G-DRY	Ww9	<0.106
O-ANIS/CH P-XYLENE	98700			UG/G-DRY	Ww9	<0.172
METHYLENE CHLORIDE	98689			UG/G-DRY	Ww9	<0.30
1, 1-DICHLOROTHENE	98689			UG/G-DRY	Yy9	<0.24
1, 1-DICHLOROETHANE	98683			UG/G-DRY	Yy9	<0.26
TRANS- 1, 2-DICHLOROET	98687			UG/G-DRY	Yy9	<0.31
HF NE	98682			UG/G-DRY	Yy9	<0.20
CHLOROFORM	98684			UG/G-DRY	Yy9	<0.16
1, 1, 1-TRICHLORO-	98692			UG/G-DRY	Yy9	<0.24
ETHANE	98680			CARBON TETRACHLORIDE	Yy9	<0.24
TRICHLOROETHENE	98694			UG/G-DRY	Yy9	<0.16
1, 1, 2-TRICHLORO-	98693			UG/G-DRY	Yy9	<0.24
ETHANE	98690			TETRACHLOROETHENE	Yy9	<0.24
CHLOROBENZENE	98681			UG/G-DRY	Yy9	<0.36
MERCUR. SED	71921			UG/G-DRY	V9	

PARAMETERS	STORE #	34567
UNITS	METHOD	36-3-1
		196
DATE		08-06-87
TIME		08:49

ALDOPIN	UG/G-DRY	98856
ATRAZINE	UG/G-DRY	98855
CHLORDANE	UG/G-DRY	98861
P-CLPHENYL METHY-	98653	
SULFIDE	UG/G-DRY	98654
P-CLPHENYL METHY-	98654	
SULFIDE	UG/G-DRY	98703
P-CLPHENYL METHY-	98652	
SULFONE	UG/G-DRY	98652
DBCP (NEMAGON)		
UG/G-DRY	98651	
DICYCLOPENTADIENE		
DDP, PP'	UG/G-DRY	98363
DDT, PP'	UG/G-DRY	98364
DIELDRIN	UG/G-DRY	98365
DIMP	UG/G-DRY	98645
1, 4 DITHIOLANE	UG/G-DRY	98650
DMMP	UG/G-DRY	98657
ENDRIN	UG/G-DRY	98369
HEXAACHLOROCLOPEN-		
-ADIENE	UG/G-DRY	98647
ISODRIN	UG/G-DRY	98649
HALATHION	UG/G-DRY	98648
1, 4 OXATHIOLANE	UG/G-DRY	98644
ETY-PARATHION	UG/G-DRY	98658
SUPONA	UG/G-DRY	98656
VAPONA	UG/G-DRY	98646
DICYCLOPENTADIENE	UG/G-DRY	98651

ENVIRONMENTAL SCIENCE & ENGINEERING

PROJECT NUMBER 84936-0300
 FIELD GROUP 36-3-1
 36-3-1PP

PROJECT NAME DNA TEST 1 PHASE 1
 PROJECT MANAGER J.W.
 LAB CODIFIED NAME JOE VONDEICK

SAMPLE 11 *

PARAMETERS	UNITS	STOKE #	DATE	TIME	34582
		METHOD			36-3-1 196
TRANS-1,2-DICHLOROET		986657			
HENE	UG/G-DRY	W9			
ETHYLEBENZENE	UG/G-DRY	986658			
1,1-DICHLORO-	UG/G-DRY	W9			
METHYLENE CHLORIDE	UG/G-DRY	986659			
TETRACHLOPOETHENE	UG/G-DRY	986690			
VOLUME	UG/G-DRY	W9			
	UG/G-DRY	98691			
1,1,1-TRICHLORO-	UG/G-DRY	W9			
ETHANE	UG/G-DRY	98692			
1,1,2-TRICHLORO-	UG/G-DRY	986693			
ETHANE	UG/G-DRY	W9			
TRICHLOROPROTHENE	UG/G-DRY	986694			
4-XYLENE	UG/G-DRY	W9			
MBK	UG/G-DRY	W9			
DMDS	UG/G-DRY	986696			
BENZENE	UG/G-DRY	986697			
C-AND/OR P-XYLENE	UG/G-DRY	W9			
CARBON TETRACHLORIDE	UG/G-DRY	986700			
CHLORBENZENE	UG/G-DRY	W9			
CHLORFORM	UG/G-DRY	986681			
1,1-DICHLOROETHANE	UG/G-DRY	W9			
1,2-DICHLOROETHANE	UG/G-DRY	986682			
BICYCLOHEPTADIENE	UG/G-DRY	986683			
DBCP(NEMAGON)	UG/G-DRY	986684			
THIODIGLYCOL	UG/G-	986685			
CHLOROACETIC ACID	UG/G	986686			
IMPA	UG/G	986687			

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ENVIRONMENTAL SCIENCE & ENGINEERING C5-04-BE
 PROJECT NUMBER 84926 Q300
 FIELD GROUP 36-3-1
 SAMPLE ID #

PROJECT NAME PHET TAST - PHET II
 PROJECT MANAGER J.J.V.
 LAB COORDINATOR J.J.V./NDP/C+

PARAMETERS	UNITS	STORRET #	METHOD	DATE	TIME
FLUOROACETIC ACID	UG/G	34587			
MPA	UG/G	36-1-1			
UNK007	UG/G	96			
UNK034	UG/G	90034			
UNK039	UG/G	90039			
UNK047	UG/G	90047			
UNK058	UG/G	90058			
UNK075	UG/G	90075			
UNK086	UG/G	90086			
UNK095	UG/G	90095			
B-55					
UNK102	UG/G	90102			
UNK108	UG/G	90108			
UNK111	UG/G	90111			
UNK112	UG/G	90112			
UNK114	UG/G	90114			
UNK116	UG/G	90116			
UNK121	UG/G	90121			
UNK124	UG/G	90124			
UNK144	UG/G	90144			
UNK146	UG/G	90146			
UNK147	UG/G	90147			

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ENVIRONMENTAL SCIENCE & ENGINEERING INC. 36-3-1
PROJECT NUMBER 84936 0301
FIELD GROUP 36-3-1
36-3-IRP

PROJECT NAME FMS TASHI PROJECT I
PROJECT MANAGER J.W.
LAE COORDINATOR G. CONDEKA

SAMPLE ID #

PARAMETERS	UNITS	STOKE #	DATE	METHOD
TIME		34580	36-1-196	08.06.87 08.49
UNK153	UG/C	90153		H9
UNK156	UG/C	90156		H9
UNK157	UG/C	90157		H9
UNK158	UG/C	90158		H9
UNK159	UG/C	90159		H9
UNK162	UG/C	90162		H9
UNK163	UG/C	90163		H9
UNK175	UG/C	90175		H9
UNK173	UG/C	90178		H9
UNK179	UG/C	90179		H9
UNK190	UG/C	90190		H9
UNK193	UG/C	90193		H9
UNK514	UG/C	90514		H9
UNK519	UG/C	90519		09
UNK525	UG/C	90525		09
UNK526	UG/C	90526		09
UNK529	UG/C	90529		09
UNK544	UG/C	90544		09
UNK543	UG/C	90543		09
UNK546	UG/C	90546		09
UNK545	UG/C	90545		09
UNK549	UG/C	90549		09
UNK551	UG/C	90551		09

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PARAMETERS	UNITS	STORE#	PROJECT NUMBER	PROJECT NAME	FILE TASK / PHASE
DATE	METHOD	36--1	36-3-1	PROJECT MANAGER	L1
TIME		196	36-3-1FP	LAB COORDINATOR	JCE VONDICK
SAMPLE ID #					
B-57		34562	84936 0:00	FILE TASK / PHASE	
UNK552	UG/C	90552	90556	PROJECT MANAGER	L1
UNK558	UG/C	09	90556	LAB COORDINATOR	JCE VONDICK
UNK559	UG/C	09	90559		
UNK561	UG/C	Q9	90561		
UNK562	UG/C	Q9	90562		
UNK563	UG/C	Q9	90563		
UNK565	UG/C	Q9	90565		
UNK567	UG/C	Q9	90567		
UNK569	UG/C	Q9	90569		
UNK570	UG/C	Q9	90570		
UNK572	UG/C	Q9	90572		
UNK574	UG/C	Q9	90574		
UNK575	UG/C	Q9	90575		
UNK576	UG/C	Q9	90576		
UNK578	UG/C	Q9	90578		
UNK579	UG/C	Q9	90579		
UNK581	UG/C	Q9	90581		
UNK583	UG/C	Q9	90583		
UNK584	UG/C	Q9	90584		
UNK586	UG/C	Q9	90586		
UNK587	UG/C	Q9	90587		
UNK588	UG/C	Q9	90588		
UNK591	UG/C	Q9	90591		

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PROJECT NUMBER 84936 0500
FIELD GROUP 36-3-1
36-3-IPP

PROJECT MANAGER J.J.
LAE COORDINATOR J.F. CONDRICK

PARAMETERS	UNITS	STORE #	METHOD	DATE	TIME
UNK592	UG/C	90592	Q9		
UNK594	UG/C	90594	Q9		
UNK595	UG/C	90595	Q9		
UNK596	UG/C	90596	Q9		
UNK597	UG/C	90597	Q9		
UNK598	UG/C	90598	Q9		
UNK601	UG/C	90601	Q9		
UNK603	UG/C	90603	Q9		
UNK605	UG/C	90605	Q9		
UNK607	UG/C	90607	Q9		
UNK608	UG/C	90608	Q9		
UNK609	UG/C	90609	Q9		
UNK611	UG/C	90611	Q9		
UNK612	UG/C	90612	Q9		
UNK613	UG/C	90613	Q9		
UNK614	UG/C	90614	Q9		
UNK615	UG/C	90615	Q9		
UNK616	UG/C	90616	Q9		
UNK617	UG/C	90617	Q9		
UNK618	UG/C	90618	Q9		
UNK619	UG/C	90619	Q9		
UNK621	UG/C	90621	Q9		
UNK622	UG/C	90622	Q9		

SAMPLE #: #

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PMZ TEST 1 PHASE 1

PROJECT MANAGER J.J.

LAE COORDINATOR J.F. CONDRICK

ENVIROMENTAL SCIENCE & ENGINEERING 25-69 EE
 PROJECT NUMBER 84936-0300 PROJECT NAME FNU TEST 1 PHASE 1
 FIELD GROUP 36-3-1 PROJECT MANAGER JUN
 36-3-1PP LAF COORDINATOR JUN UNDERICK
 SAMPLE ID: C-36-3-1

PARAMETERS	UNITS	STORIT # METHOD	DATE TIME	34582
UNK623	UG/C		08/06/87 08:49	90623 Q9
UNK624	UG/C			90624 Q9
UNK625	UG/C			90625 09
UNK626	UG/C			90626 09
UNK627	UG/C			90627 09
UNK628	UG/C			90628 09
50 UNK629	UG/C			90629 09
UNK630	UG/C			90630 09
UNK631	UG/C			90631 09
UNK632	UG/C			90632 09
UNK633	UG/C			90633 09
UNK634	UG/C			90634 09
UNK635	UG/C			90635 09
UNK636	UG/C			90636 09
UNK638	UG/C			90638 09
UNK639	UG/C			90639 09
UNK641	UG/C			90641 09
UNK642	UG/C			90642 09
UNK643	UG/C			90643 09
UNK644	UG/C			90644 09
UNK646	UG/C			90646 09
UNK648	UG/C			90648 09
UNK649	UG/C			90649 09

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PROJECT NUMBER 84936 0300
FIELD GROUP 36-3-1
36-3-IRP

PROJECT NAME PMI TEST - PHASE II
PROJECT MANAGER J.W.
LAB COORDINATOR JOE VONDEICK

SAMPLE ID #

PARAMETERS	STORER #	34582
UNITS	METHOD	36-3-1
DATE		196
TIME		08:06:87
UNM651	UG/G	90651
UNM668	UG/G	90668

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PROJECT NUMBER 84936 0300			PROJECT NAME PMA TASK 1		
FIELD GROUP TIMB			PROJECT MANAGER		
ALL			LAB COORDINATOR JOE VONDRICK		
PARAMETERS	JNTS	STREET #	SAMPLE ID#	BLK	BLK
		METHOD		TIMB	TIMB
DATE TIME		BLK TIME 64	BLK TIME 65	BLK TIME 145	BLK TIME 43
SAMPLE TYPE	07 21/87	08 05 67	06/30/87	07/14/87	08/03/87
SITE TYPE	1	95-59	SO	SO	SO
SAMPLE DEPTH CM	0	99738	0.0	0.0	0.0
SAMPLING TECHNIQUE	0	72005	G	G	G
INSTALLATION CODE SAMPLE	0	99720	PA	PA	PA
MOISTURE %WET WT	0	70320	2.4	2.4	2.4
MPA	UG G	97362	<2.10	<2.10	<2.10
	FLUoroACETIC ACID	97361	NA	<2.00	
MPA	UG G	97363	<2.00	<2.00	
MERCURY	UG G	71921	<0.070	<0.070	
THIOGLYCOL	UG G- DRY	99798		<2.55	<2.55
CHLOROACETIC ACID	UG G	97285		<18.0	<18.0
DIMP	UG/G-DRY	98645		<0.114	<0.114
DMHP	UG/G-DRY	98657		<0.133	<0.133

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PROJECT NUMBER: R4936 0300
 FIELD GROUP TIME
 ALL

PROJECT NAME: FMA TASK 1
 PROJECT MANAGER: JOE VONORICKA
 LAB COORDINATOR: JOE VONORICKA

PARAMETERS	UNITS	SAMPLE ID#												S
		BLK	BLK	BLK	BLK	BLK	BLK	BLK	BLK	BLK	BLK	BLK	BLK	
DATE TIME	STCET # METHOD	07/06/87 07 09:87	07/14 87	07/21/87	07/27 87	07/29 87	08/03/87	07/06/87	07/14 87	07/21/87	07/27 87	07/29 87	08/03/87	07/06 87
SAMPLE TYPE	71939	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO
SITE TYPE	1	99759	QCMB											
SAMPLE DEPTH CM	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SAMPLING TECHNIQUE	72005	G	G	G	G	G	G	G	G	G	G	G	G	G
INSTALLATION CODE	99720	RH	RH	RH	RH	RH	RH	RH	RH	RH	RH	RH	RH	F.
MOISTURE SAMPLE	70320	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
DISPERSION (G)	98652	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	2
DMDS UG/G-DRY	98697	UW9	UW9	UW9	UW9	UW9	UW9	UW9	UW9	UW9	UW9	UW9	UW9	UW9
1,4 OXATHIANE UG/G-DRY	98644	UW9	UW9	UW9	UW9	UW9	UW9	UW9	UW9	UW9	UW9	UW9	UW9	UW9
1,4 DITHIANE UG/G-DRY	98650	UW9	UW9	UW9	UW9	UW9	UW9	UW9	UW9	UW9	UW9	UW9	UW9	UW9
P-CHLORPHENYL METHY-SULFIDE UG/G-DRY	98651	UW9	UW9	UW9	UW9	UW9	UW9	UW9	UW9	UW9	UW9	UW9	UW9	UW9
BENZOTHIADOLE UG/G-	97302	UW9	UW9	UW9	UW9	UW9	UW9	UW9	UW9	UW9	UW9	UW9	UW9	UW9
P-CHLORPHENYL METHY-SULFOXIDE UG/G-DRY	98654	UW9	UW9	UW9	UW9	UW9	UW9	UW9	UW9	UW9	UW9	UW9	UW9	UW9
P-CHLORPHENYL METHY-SULFONE UG/G-DRY	98703	UW9	UW9	UW9	UW9	UW9	UW9	UW9	UW9	UW9	UW9	UW9	UW9	UW9
MERCURY, SED UG/G-DRY	71921	UW9	UW9	UW9	UW9	UW9	UW9	UW9	UW9	UW9	UW9	UW9	UW9	UW9

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PROJECT NUMBER 64566 0500

PROJECT NAME RMA TASK 1

FIELD GROUP TIME

PROJECT MANAGER

LAB COORDINATOR JOE VONDRICKA

PARAMETERS	UNITS	STOR/ST METHOD	BLK TIME 106	BLK TIME 107	BLK TIME 108	BLK TIME 84	BLK TIME 85	BLK TIME 86	BLK TIME 87	BLK TIME 88	BLK TIME 89	BLK TIME 90	BLK TIME 91	BLK TIME 92	
DATE TIME		07/15/87 00:00	07/23/87 00:00	07/28/87 00:00	08/04/87 00:00	07/15/87 00:00	07/23/87 00:00	07/23/87 00:00	07/28/87 00:00	08/05/87 00:00	08/04/87 00:00	07/30/87 00:00	08/04/87 00:00	08/06/87 00:00	
SAMPLE TYPE		71999 0	SC 0	SC 0	SC 0	SC 0	SC 0	SC 0	SC 0	SC 0	SC 0	SC 0	SC 0	SC 0	
SITE TYPE		99759 0	QCMB 0.0	QCMB 0.0	QCMB 0.0	QCMB 0.0	QCMB 0.0	QCMB 0.0	QCMB 0.0	QCMB 0.0	QCMB 0.0	QCMB 0.0	QCMB 0.0	QCMB 0.0	
SAMPLE DEPTH CM		99758 0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
SAMPLING TECHNIQUE		72005 0	G G	G G	G G	G G	G G	G G	G G	G G	G G	G G	G G	G G	
INSTALLATION CODE		99720 0	PK PK	PK PK	PK PK	PK PK	PK PK	PK PK	PK PK	PK PK	PK PK	PK PK	PK PK	PK PK	
MOISTURE SAMPLE		70320 0	2.4 0	2.4 0	2.4 0	2.4 0	2.4 0	2.4 0	2.4 0	2.4 0	2.4 0	2.4 0	2.4 0	2.4 0	
MOISTURE SWET WT		ALDFIN UG/G-DRY	98356 09	0.94 0.73	0.94 0.73	0.94 0.73	0.94 0.73	0.94 0.73	0.94 0.73	0.94 0.73	0.94 0.73	0.94 0.73	0.94 0.73	0.94 0.73	
ATRAZINE		ATRAZINE UG/G-DRY	98655 09	0.73 0.73	0.73 0.73	0.73 0.73	0.73 0.73	0.73 0.73	0.73 0.73	0.73 0.73	0.73 0.73	0.73 0.73	0.73 0.73	0.73 0.73	
CHLORDANE		CHLORDANE UG/G-DRY	986361 09	<1.5 0.25	<1.5 0.25	<1.5 0.25	<1.5 0.25	<1.5 0.25	<1.5 0.25	<1.5 0.25	<1.5 0.25	<1.5 0.25	<1.5 0.25	<1.5 0.25	<1.5 0.25
P-CLPHENYL METHY- SULF 10% UG/G-DRY		P-CLPHENYL METHY- SULF 10% UG/G-DRY	98653 09	<0.35 0.25	<0.35 0.25	<0.35 0.25	<0.35 0.25	<0.35 0.25	<0.35 0.25	<0.35 0.25	<0.35 0.25	<0.35 0.25	<0.35 0.25	<0.35 0.25	<0.35 0.25
P-CLPHENYL THY- SULFOX DC U /G-DRY		P-CLPHENYL THY- SULFOX DC U /G-DRY	98654 09	<0.35 0.25	<0.35 0.25	<0.35 0.25	<0.35 0.25	<0.35 0.25	<0.35 0.25	<0.35 0.25	<0.35 0.25	<0.35 0.25	<0.35 0.25	<0.35 0.25	<0.35 0.25
DBCP (NEAGON)		DBC P (NEAGON)	98652 09	<0.33 0.25	<0.33 0.25	<0.33 0.25	<0.33 0.25	<0.33 0.25	<0.33 0.25	<0.33 0.25	<0.33 0.25	<0.33 0.25	<0.33 0.25	<0.33 0.25	<0.33 0.25
DICYCLOPENTADIENE		DICYCLOPENTADIENE	98651 09	<0.26 0.29	<0.26 0.29	<0.26 0.29	<0.26 0.29	<0.26 0.29	<0.26 0.29	<0.26 0.29	<0.26 0.29	<0.26 0.29	<0.26 0.29	<0.26 0.29	<0.26 0.29
DDT, PP,		DDT, PP, UG/G-DRY	98363 09	<0.29 0.29	<0.29 0.29	<0.29 0.29	<0.29 0.29	<0.29 0.29	<0.29 0.29	<0.29 0.29	<0.29 0.29	<0.29 0.29	<0.29 0.29	<0.29 0.29	<0.29 0.29
DDT, PP,		DDT, PP, UG/G-DRY	98364 09	<0.37 0.37	<0.37 0.37	<0.37 0.37	<0.37 0.37	<0.37 0.37	<0.37 0.37	<0.37 0.37	<0.37 0.37	<0.37 0.37	<0.37 0.37	<0.37 0.37	<0.37 0.37
DIELDRIN		DIELDRIN UG/G-DRY	98365 09	<0.25 0.25	<0.25 0.25	<0.25 0.25	<0.25 0.25	<0.25 0.25	<0.25 0.25	<0.25 0.25	<0.25 0.25	<0.25 0.25	<0.25 0.25	<0.25 0.25	<0.25 0.25
DIMP		DIMP UG/G-DRY	98657 09	<1.5 1.5	<1.5 1.5	<1.5 1.5	<1.5 1.5	<1.5 1.5	<1.5 1.5	<1.5 1.5	<1.5 1.5	<1.5 1.5	<1.5 1.5	<1.5 1.5	<1.5 1.5
ENDOFIN		ENDOFIN UG/G-DRY	98669 09	<1.7 1.7	<1.7 1.7	<1.7 1.7	<1.7 1.7	<1.7 1.7	<1.7 1.7	<1.7 1.7	<1.7 1.7	<1.7 1.7	<1.7 1.7	<1.7 1.7	<1.7 1.7
HEXACHLOROPHENYL ADIFINE		HEXACHLOROPHENYL ADIFINE	98647 09	<1.1 1.1	<1.1 1.1	<1.1 1.1	<1.1 1.1	<1.1 1.1	<1.1 1.1	<1.1 1.1	<1.1 1.1	<1.1 1.1	<1.1 1.1	<1.1 1.1	<1.1 1.1
ISODDFIN		ISODDFIN UG/G-DRY	98649 09	<0.33 0.33	<0.33 0.33	<0.33 0.33	<0.33 0.33	<0.33 0.33	<0.33 0.33	<0.33 0.33	<0.33 0.33	<0.33 0.33	<0.33 0.33	<0.33 0.33	<0.33 0.33

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PROJECT NUMBER 84936 0300
FIELD GROUP ALL

PROJECT NAME RMA TASK 1
PROJECT MANAGER LAB COORDINATOR JOE VONDRECK

PARAMETERS	UNITS	STCET #	METHOD	SAMPLE ID #				SAMPLE ID #			
				BLK TIME	BLK TIME	BLK TIME	BLK TIME	BLK TIME	BLK TIME	BLK TIME	BLK TIME
DATE	TIME	07 15:67	07 23:87	08 04:87	07 15:67	07 23:67	07 23:67	07:28:87	08:05:87	06:04:87	08:04:87
MALATHION		98646	UG-C-DRY	<0.59	<0.59	<0.59	<0.59	00:00	00:00	00:00	00:00
1,4 OXATHIOLANE		98644	UG-C-DRY	<0.26	<0.26	<0.26	<0.26				
ETY-PARATHION		98656	UG-C-DRY	<0.63	<0.63	<0.63	<0.63				
SUPONA		98656	UG-C-DRY	<0.49	<0.49	<0.49	<0.49				
VAPONA		98646	UG-C-DRY	<0.25	<0.25	<0.25	<0.25				
DICYCLOPENTADIENE		98651	UG-C-DRY		<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
TRANS-1,2-DICHLORO-		98667	UG-C-DRY		<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
HENE		98667	UG-C-DRY								
ETHILENENOLE		98686	UG-C-DRY								
METHYLENE CHLORIDE		98689	UG-C-DRY								
TETRACHLOROETHENE		98680	UG-C-DRY								
TOLUENE		98691	UG-C-DRY								
1,1,1-TRICHLORO-		98692	UG-C-DRY								
ETHANE		98692	UG-C-DRY								
1,1,2-TRICHLORO-		98693	UG-C-DRY								
ETHANE		98693	UG-C-DRY								
TRICHLOROETHENE		98694	UG-C-DRY								
M-1-LENE		98695	UG-C-DRY								
M-BENZENE		98696	UG-C-DRY								
DMDS		98697	UG-C-DRY								
BENZENE		98698	UG-C-DRY								
C-AND/OH P-XYLENE		98700	UG-C-DRY								
CAFEDON TETRACHLORIDE		98680	UG-C-DRY								
CHLOROBENZENE		98681	UG-C-DRY								
CHLOROFORM		98682	UG-C-DRY								
1,1-DICHLOROETHANE		98683	UG-C-DRY								

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 PROJECT NUMBER 89936 0:00
 FIELD GROUP 1MB
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PARAMETERS	STOKE #	METHOD	SAMPLE ID#			SAMPLE ID#			SAMPLE ID#		
			BLK	TIME	BLK	BLK	TIME	BLK	BLK	TIME	BLK
DATE	TIME		BLK	TIME	BLK	BLK	TIME	BLK	BLK	TIME	BLK
TIME			07/15/87	07:23:67	07:26:87	06:04:67	07:15:67	07:23:87	07:23:87	07:28:87	08:05:87
1,2-DICHLOROETHANE	98684	UG G-DRY		00:00	00:00	00:00	00:00	00:00	00:00	00:00	08/04/87
E1/C1 CLOROPIDOLINE	98686	UG G-DRY				<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
DECP (NEMAGIN)	98652	UG G-DRY				<0.30	<0.30	<0.30	<0.30	<0.30	<0.30

ENVIRONMENTAL SCIENCE & ENGINEERING				PROJECT NUMBER: 84936 0300	PROJECT NAME: RMA TASK 1	DATE: 05/11/86	PAGE# 1
FIELD GROUP		TIME	ALL	PROJECT MANAGER: LAE COORDINATOR: JOE VONDRIK			
PARAMETERS	STORED #	BLK	BLK	SAMPLE ID: #	BLK	BLK	BLK
UNITS	METHOD	TIMB	TIMB	TIME	TIMB	TIMB	TIMB
DATE TIME	07 06 87 00:00	07 06 87 00:00	07 14/87 00:00	07/21/87 00:00	07/27/87 00:00	08/05/87 00:00	07/21/87 00:00
SAMPLE TYPE	71999	SO	SO	SO	SO	SO	SO
SITE TYPE	99759	QCMB	QCMB	QCMB	QCMB	QCMB	QCMB
SAMPLE DEPTH CM	99758	0.0	0.0	0.0	0.0	0.0	0.0
SAMPLING TECHNIQUE	72005	0	6	6	6	6	6
INSTALLATION CODE	99720	RH	RH	RH	RH	RH	RH
SAMPLE	0						
MEASURED	ZNET WT	0	2.4	2.4	2.4	2.4	2.4
HEXACHLORO-CYCLOPENTADIENE UG-C-DRY	98647	<0.003	<0.003	<0.003	0.014		
ALDFIN SED	SS9A						
96356	<0.002	<0.002	<0.002	<0.002			
ISOFIN	UG-C-DRY	98649	<0.001	<0.001	<0.001		
DDE, PP,	UG-C-DRY	98363	<0.001	<0.001	<0.001		
DDT, PP,	UG-C-DRY	98364	<0.002	<0.002	<0.002		
CHLORDANE, SED	UG-C-DRY	98361	<0.111	<0.111	<0.111		
BENZENE	UG-C-DRY	98699		<0.081	<0.081	<0.081	<0.081
TOLUENE	UG-C-DRY	98691		<0.096	<0.096	<0.096	<0.096
ETHYL BENZENE	UG-C-DRY	98688		<0.043	<0.043	<0.043	<0.043
M-111ENE	UG-C-DRY	98695		<0.053	<0.053	<0.053	<0.053
O- AND O- P-YLENE	UG-C-DRY	98700		<0.086	<0.086	<0.086	<0.086
METHYLENE CHLORIDE	UG-C-DRY	98689					
1, 1-DICHLOROTHEINE	UG-C-DRY	98699					
1, 1-DICHLOROETHANE	UG-C-DRY	98683					
TRANS-1, 2-DICHLOROETHENE	UG-C-DRY	98687					

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PROJECT NUMBER 84936 0300

PROJECT NAME RMA TASK 1

FIELD GROUP ALL

PROJECT MANAGER

LAB COORDINATOR JOE VONDRICK

PARAMETERS	STOEF # METHOD	UNITS	DATE TIME	ELN TIME	BLK TIME	SAMPLE ID/#							
													BLK
CHLOROFORM	UG/G-DRY	98662	07/06 07	07 06:87	07/14/87	07 06:87	07/14/87	07 21:87	07/27:87	07/30:87	08/05:87	07/06:87	07/14:87
1,2-DICHLOROTETRAENE	UG/G-DRY	98684	07/06 07	07 06:87	07/14/87	07 21:87	07/14/87	07/21:87	07/27:87	07/30:87	08/05:87	07/06:87	07/21:87
1,1,1-TFICHLORO-	UG/G-DRY	98692	07/06 07	07 06:87	07/14/87	07 21:87	07/14/87	07/21:87	07/27:87	07/30:87	08/05:87	07/06:87	07/21:87
ETHANE	UG/G-DRY	98680	07/06 07	07 06:87	07/14/87	07 21:87	07/14/87	07/21:87	07/27:87	07/30:87	08/05:87	07/06:87	07/21:87
CARBON TETRACHLORIDE	UG/G-DRY	98680	07/06 07	07 06:87	07/14/87	07 21:87	07/14/87	07/21:87	07/27:87	07/30:87	08/05:87	07/06:87	07/21:87
TRICHLOROETHENE	UG/G-DRY	98694	07/06 07	07 06:87	07/14/87	07 21:87	07/14/87	07/21:87	07/27:87	07/30:87	08/05:87	07/06:87	07/21:87
1,1,2-TFICHLORO-	UG/G-DRY	98693	07/06 07	07 06:87	07/14/87	07 21:87	07/14/87	07/21:87	07/27:87	07/30:87	08/05:87	07/06:87	07/21:87
ETHANE	UG/G-DRY	98690	07/06 07	07 06:87	07/14/87	07 21:87	07/14/87	07/21:87	07/27:87	07/30:87	08/05:87	07/06:87	07/21:87
TEFRAETHYL OXETENE	UG/G-DRY	98681	07/06 07	07 06:87	07/14/87	07 21:87	07/14/87	07/21:87	07/27:87	07/30:87	08/05:87	07/06:87	07/21:87
CHLOROBENZENE	UG/G-DRY	98686	07/06 07	07 06:87	07/14/87	07 21:87	07/14/87	07/21:87	07/27:87	07/30:87	08/05:87	07/06:87	07/21:87
BICYCLOHEPTADIENE	UG/G-DRY	98686	07/06 07	07 06:87	07/14/87	07 21:87	07/14/87	07/21:87	07/27:87	07/30:87	08/05:87	07/06:87	07/21:87
METHYLISOBUTYRICKETONE	UG/G-DRY	98696	07/06 07	07 06:87	07/14/87	07 21:87	07/14/87	07/21:87	07/27:87	07/30:87	08/05:87	07/06:87	07/21:87
DICYCLOPENTADIENE	UG/G-DRY	98651	07/06 07	07 06:87	07/14/87	07 21:87	07/14/87	07/21:87	07/27:87	07/30:87	08/05:87	07/06:87	07/21:87
		229											

		ENVIRONMENTAL SCIENCE & ENGINEERING		05/11/86	PROJECT NAME PMA TASK 1	
		PROJECT NUMBER 64936 0:00		TIME	TIME	TIME
		FIELD GROUP ALL		BLA	2.5	206
PARAMETERS	STORED #	BLA	BLA	BLA	BLA	BLA
UNITS	METHOD	TIME	TIME	TIME	TIME	TIME
DATE TIME	08 05:67 00:00	07:06:87 00:00	07:09:87 00:00	07:14:87 00:00	07:21:87 00:00	07:29:87 00:00
SAMPLE TYPE	71999 0	SO	SO	SO	SO	SO
SITE TYPE	1 0	QCM6 QCM6	QCM6 QCM6	QCM6 QCM6	QCM6 QCM6	QCM6 QCM6
SAMPLE DEPTH CM	99758 0	0.0	0.0	0.0	0.0	0.0
SAMPLING TECHNIQUE	72005 0	G	G	G	G	G
INSTALLATION CODE	99720 0	RH	RH	RH	RH	RH
MC STUFF SAMPLE	70320 0	2.4	2.4	2.4	2.4	2.4
MC STUFF SWFT WT	0					
HEPTACHLOROGLYCOCYCLOPENT-	98647					
ACETENE UG/G-DRY	SS9A					
ALDRIN, SED	98356					
UG/G- DRY	SS9A					
ISODDFIN UG/G-DRY	98649					
DDE, PP'	UG/G-DRY	SS9A				
UG/G-DRY	98363					
DIELDFIN UG/G-DRY	98365					
UG/G-DRY	SS9A					
EADFIN UG/G-DRY	98369					
UG/G-DRY.	SS9A					
DDT, PP'	UG/G-DRY	SS9A				
UG/G-DRY	98364					
CHLORDANE SED	98361					
UG/G- DRY	SS9A					
BENZENE UG/G-DRY	98869					
MM9	MM9					
TOLUENE UG/G-DRY	98891					
MM9	MM9					
ETHYLBENZENE UG/G-DRY	98888					
MM9	MM9					
MM9	MM9					
M-XYLENE UG/G-DRY	98875					
UG/G- XYLENE	98870					
O-ANISIC P-XYLENE	UG/G-DRY	MM9				
METHYLENE CHLORIDE	98889	<0.15				
UG/G-DRY	Y19					
1, 1-DICHLOROETHENE	98869	<0.12				
UG/G-DRY	Y19					
1, 1-DICHLOROETHANE	98863	<0.13				
UG/G-DRY	Y19					
TRANS- 1, 2-DICHLOROET	98867	<0.15				
HENE UG/G-DRY	Y19					

ENVIRONMENTAL SCIENCE & ENGINEERING 05/11/88

PROJECT NUMBER 6493t 0300
FIELD GROUP ALL

PROJECT NAME RMA TASK 1

PROJECT MANAGER

LAB COORDINATOR JOE VONDRICK

PARAMETERS	STORE#	BLK	BLK	BLK	BLK	BLK	BLK	SAMPLE ID#
UNITS	METHOD	TIME	TIME	TIME	TIME	TIME	TIME	
DATE	08/05/87	07:09:87	07:14:87	07:21:67	07:27:87	07:29:87	08:03:87	
TIME	00:00	00:00	00:00	00:00	00:00	00:00	00:00	
CHLOROFORM	98882	<0.10						
UG/G-DRY	YY9							
1,2-DICHLOROETHANE	98884	<0.06						
UG/G-DRY	YY9							
1,1,1-TRICHLORO-	98892	<0.12						
ETHANE	UG/G-DRY	YY9						
CARBON TETRACHLORIDE	98880	<0.12						
UG/G-DRY	YY9							
TRICHLOROETHENE	98894	<0.05						
UG/G-DRY	YY9							
1,1,2-TRICHLORO-	98893	<0.12						
ETHANE	UG/G-DRY	YY9						
TETRACHLOROETHENE	98890	<0.12						
UG/G-DRY	YY9							
CHLOROBENZENE	98881	<0.18						
UG/G-DRY	YY9							
BIS(2-CHEMOTADENE)	98886	<5.06	<5.08	<5.08	<5.08	<5.08	<5.08	<5.08
UG/G-DRY	ZZ9							
METHYLISOBUTYLICETONE	98896	<5.24	<5.24	<5.24	<5.24	<5.24	<5.24	<5.24
UG/G-DRY	ZZ9							
DICYCLOPENTADIENE	98851	<5.12	<5.12	<5.12	<5.12	<5.12	<5.12	<5.12
UG/G-DRY	ZZ9							

ENVIRONMENTAL SCIENCE & ENGINEERING
PROJECT NUMBER 84936 0300
FIELD GROUP ALL
SAMPLE ID# 09/12/88
PROJECT NAME RMA TASK I
LAB COORDINATOR JOE VONDREICH
PAGE # 1

PARAMETERS	UNITS	STORET METHOD	BLK	BLK	BLK	BLK	BLK	BLK	BLK	BLK	BLK	BLK	BLK	BLK	BLK	BLK	BLK	BLK	BLK	
DATE TIME		12/08/87 00:00	12/09/87 01/05/88	12/09/87 01/05/88	12/09/87 01/05/88	11/02/87 00:00	00:00	00:00	01/03/87 01/05/88	01/05/88 01/11/88	01/05/88 01/11/88	01/05/88 01/11/88	01/05/88 01/11/88	01/05/88 01/11/88	01/05/88 01/11/88	01/05/88 01/11/88	01/05/88 01/11/88	01/05/88 01/11/88	01/05/88 01/11/88	01/05/88 01/11/88
SAMPLE TYPE		71999	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	
SITE TYPE 1 CM		99759	QCMB	QCMB	QCMB	QCMB	QCMB	QCMB	QCMB	QCMB	QCMB	QCMB	QCMB	QCMB	QCMB	QCMB	QCMB	QCMB	QCMB	
SAMPLING TECHNIQUE		99205	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	
INSTALLATION CODE SAMPLE		99220	RK	RK	RK	RK	RK	RK	RK	RK	RK	RK	RK	RK	RK	RK	RK	RK	RK	
MOISTURE %WET WT		70120	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	
IMPA	UG/G	97382	<2.10	<2.10	<2.10	<2.10	<2.10	<2.10	<2.10	<2.10	<2.10	<2.10	<2.10	<2.10	<2.10	<2.10	<2.10	<2.10	<2.10	
FLUOROACETIC ACID	UG/G	97381	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	
MPA	UG/G	97383	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	
THIODIGLYCOL	UG/G	99798	MM9	MM9	MM9	MM9	MM9	MM9	MM9	MM9	MM9	MM9	MM9	MM9	MM9	MM9	MM9	MM9	MM9	
CHLOROACETIC ACID	UG/G	97285	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	
ARSENIC, SED	UG/G	1003	<4.70	<4.70	<4.70	<4.70	<4.70	<4.70	<4.70	<4.70	<4.70	<4.70	<4.70	<4.70	<4.70	<4.70	<4.70	<4.70	<4.70	
DIMP	UG/G-DRY	98645	T9	T9	T9	T9	T9	T9	T9	T9	T9	T9	T9	T9	T9	T9	T9	T9	T9	
DMP	UG/G-DRY	98657	T19	T19	T19	T19	T19	T19	T19	T19	T19	T19	T19	T19	T19	T19	T19	T19	T19	
MERCURY, SED	UG/G-DRY	71921	V9	V9	V9	V9	V9	V9	V9	V9	V9	V9	V9	V9	V9	V9	V9	V9	V9	

ENVIRONMENTAL SCIENCE & ENGINEERING			09/12/88	PROJECT NAME	RMA TASK 1	PAGE #2
PROJECT NUMBER 84936 0300				FIELD GROUP	TMB	
			ALL			
PARAMETERS	UNITS	STORED METHOD	BLK TMB	BLK TMB	BLK TMB	SAMPLE ID/#
DATE TIME		11/30/87 00:00	12/07/87 00:00	12/16/88 00:00	01/05/88 00:00	
SAMPLE TYPE		71939 0	SO	SO	SO	SO
SITE TYPE 1	CM	99759 0	QCMB	WCMB	QCMB	QCMB
SAMPLE DEPTH	CM	99758 0	0.0	0.0	0.0	0.0
SAMPLING TECHNIQUE		72005 0	G	G	G	G
INSTALLATION CODE		99720 0	RK	RK	RK	RK
MOISTURE SAMPLE		70308 0	2.4	2.4	2.4	2.4
IMP.	%WET WT	97382 0				
FLUOROACETIC ACID	UG/G	AAA9 97381 0				
MPA	UG/G	AAA9 97383 0				
THIODIGLYCOL	UG/G	AAA9 99798 MM9				
CHLOROACETIC ACID	UG/G	97205 MM9				
ARSENIC, SED	UG/G- DRY	1003 T9				
DIMP	UG/G-DRY	98645 TT9				
DMMMP	UG/G-DRY	98657 TT9				
MERCURY, SED	UG/G-DRY	71921 <0.050 V9	<0.050	<0.050	<0.050	<0.050

PAGE #
ENVIRONMENTAL SCIENCE & ENGINEERING **09/12/88**
PROJECT NUMBER 84936 0300 **PROJECT NAME RMA TASK 1**
FIELD GROUP 1MB **PROJECT MANAGER**

ENVIRONMENTAL SCIENCE & ENGINEERING
PROJECT NUMBER 84936 0300
FIELD GROUP 11MB
09/12/88
PROJECT N
PROJECT M
LAB COORD

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		ENVIRONMENTAL SCIENCE & ENGINEERING		09/12/88	PROJECT NAME	RMA TASK	PAGE #1
		PROJECT NUMBER 84926 0300		FIELD GROUP	TMB	LAB COORDINATOR JOE VONDICK	
PARAMETERS	UNITS	STORED METHOD	BLK TMB	BLK	BLK	SAMPLE ID/*	
DATE TIME		12/06/87 00:00	12/11/87 01/07/88	01/11/88			
SAMPLE TYPE		71999 0	SO	SO	SO	SO	
SITE TYPE I		99759 0	QCMB	QCMB	QCMB	QCMB	
SAMPLE DEPTH CM		99758 0	0.0	0.0	0.0	0.0	
SAMPLING TECHNIQUE		72005 0	C	C	C	C	
INSTALLATION CODE SAMPLE		99720 0	RK	RK	RK	RK	
MOISTURE %WET WT		70320 0	2.4	2.4	2.4	2.4	
DICYCLOPENTADIENE UG/G-DRY		99651 W9	<0.27	<0.27	<0.27	<0.27	
TRANS-1,2-DICHLOROETHANE UG/G-DRY		99687 W9	<0.25	<0.25	<0.25	<0.25	
ETHYLBENZENE UG/G-DRY		99688 W9	<0.25	<0.25	<0.25	<0.25	
METHYLENE CHLORIDE UG/G-DRY		99689 W9	0.83	0.66	1.1	1.3	
TETRACHLOROETHENE UG/G-DRY		99690 W9	<0.25	<0.25	<0.25	<0.25	
TOLUENE UG/G-DRY		99691 W9	<0.25	<0.28	<0.28	<0.25	
1,1,1-TRICHLOROETHANE UG/G-DRY		99692 W9	<0.25	<0.25	<0.25	<0.25	
1,1,2-TRICHLOROETHANE UG/G-DRY		99693 W9	<0.25	<0.25	<0.25	<0.25	
M-XYLENE UG/G-DRY		99694 W9	<0.25	<0.25	<0.25	<0.25	
MIBK UG/G-DRY		99695 W9	<0.25	<0.25	<0.25	<0.25	
DMDS UG/G-DRY		99696 W9	<0.50	<0.50	<0.50	<0.50	
BENZENE UG/G-DRY		99697 W9	<0.25	<0.25	<0.25	<0.25	
O-AND/OR P-XYLENE UG/G-DRY		99698 W9	<0.50	<0.50	<0.50	<0.50	
CARBON TETRACHLORIDE UG/G-DRY		99699 W9	<0.25	<0.25	<0.25	<0.25	
CHLOROBENZENE UG/G-DRY		99681 W9	<0.25	<0.25	<0.25	<0.25	
CHLOROFORM UG/G-DRY		99682 W9	<0.25	<0.25	<0.25	<0.25	
1,1-DICHLOROETHANE UG/G-DRY		99683 W9	<0.25	<0.25	<0.25	<0.25	

ENVIRONMENTAL SCIENCE & ENGINEERING
PROJECT NUMBER B4936 B300
B9/12/88 RMA TASK 1
PROJECT MANAGER RMA
LAB COORDINATOR JOE VANDRICK

PARAMETERS	STORIT	BLK	BLK	BLK	SAMPLE ID/#
UNITS	MT1H00	T1MBI	T1MBI	T1MBI	
DATE	12/08/87	12/11/87	01/07/88	01/11/88	
TIME	00:00				
1,2-DICHLOROETHANE	98684	<0.28	<0.28	<0.28	<0.28
UG/G-DRY	W9				
BICYCLOHEPTADIENE	98686	<0.25	<0.25	<0.25	<0.25
UG/G-DRY	W9				
DBCP (NEMACON)	98652	<0.33	<0.33	<0.33	<0.33
UG/G-DRY	W9				
UNK161	90161	30	20	50	
UG/C	W9				
UNK160	90160	10			
UG/C	W9				
UNK041	90041		6	3	
UG/C	W9				
UNK062	90062		6	6	
UC/C	W9				